



Product Catalog

# ATEN VanCryst™ Professional AV Solutions



2019 | 2020

## Celebrating 40 Years

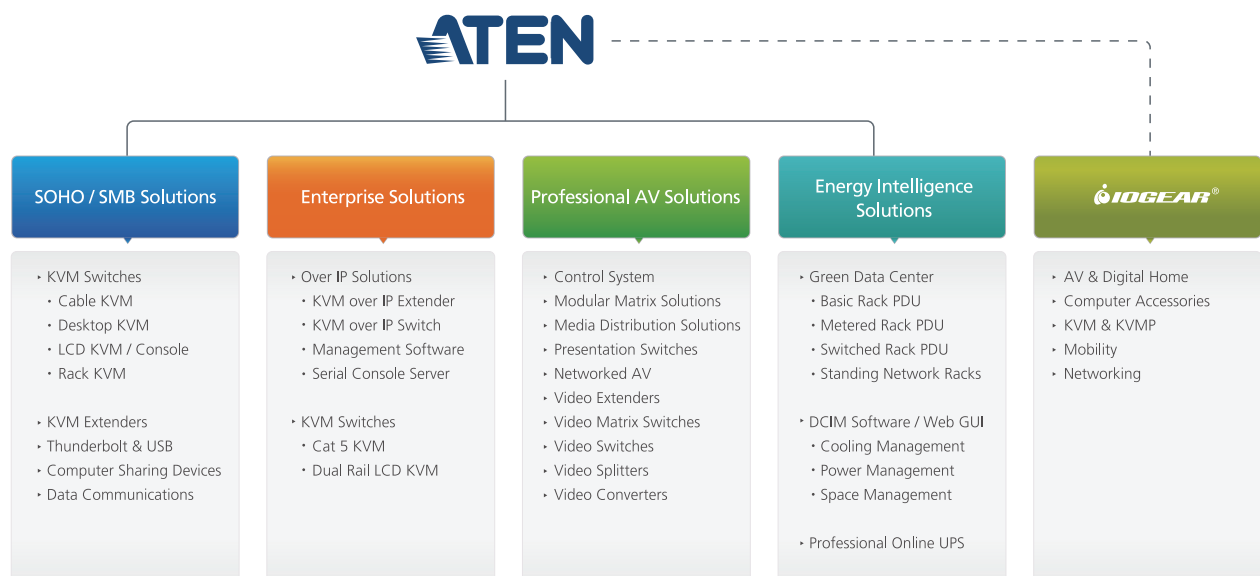
2019 marks ATEN's 40th anniversary since the company was established in 1979. ATEN's success is anchored upon our dedication to AV/IT technologies, and our commitment to sustained innovation and achieving excellence, all fueled by a passion for bringing better connectivity to the world. We will continue to enjoy a solid base of market diversity, geographical expansion, and numerous achievements in alliance with our highly respected clients and partners.

As an accelerator for the integration of AV and IT technologies, ATEN works consistently to create secure, efficient, and productive IP-based AV networking and IT control solutions. Offering integrated KVM, professional AV, and intelligent power solutions, ATEN products connect, manage, and optimize AV/IT equipment in corporate, government, education, broadcasting and media, and transportation environments.



## ATEN Product Portfolio

- ATEN's Altusen™ Enterprise Solutions for IT infrastructure access and management offer integrated KVM connectivity and control capabilities for customers to facilitate the effective management of IT infrastructures from anywhere in the world.
- ATEN's VanCryst™ Professional AV Solutions leverage our enhanced video and control capabilities and offer signal management and system control components to build a multitude of flexible integrated solutions for all professional audio/video-related applications.
- ATEN's SOHO/SMB Solutions invite you to experience the very latest standards in USB connectivity, mobility, and speed while embracing the next generation of 4K-enabled workstation solutions.
- ATEN's NRGence™ Energy Intelligence solutions offer sensor-enabled, energy-saving hardware and software for data centers that provide real-time energy management and performance indicators.



# Company Profile



## Our Services for You

We help you satisfy all your customers' needs and grow your business.



### Global Sales and Service Network

ATEN has a global network of sales and engineering professionals to provide our customers with fast, efficient, and comprehensive service. Our distribution channels and partners extend worldwide to more than 100 countries.



### ATEN eNews

ATEN eNews is a monthly publication featuring the latest ATEN product developments, marketing and promotional resources, and corporate activities. Registered partners receive a monthly newsletter to stay up-to-date with ATEN's latest product news and events.





### ATEN Download Center

As an ATEN partner, you are guaranteed to have all the tools, knowledge, and support you require to succeed. Authorized partners can access our intuitive information sharing platform to get the latest marketing materials, sales tools, technical documents, product certifications, and more. ATEN also provides integrated marketing programs and promotions to assist partners in promoting ATEN products and services.



### ATEN Partner Portal

The ATEN Partner Portal is a web portal that is dedicated to Solution Partners, Channel Partners, and DMR Partners, and provides several ATEN online services, including technical support, product registration, and a wide range of unique partner services.



## ATEN Video Product Landmarks

| Year | Landmark                               | Product Name                       | Key Technology Advance                                                                                          |
|------|----------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1993 | • Video Splitter                       | VS104 / VS108                      | First VGA splitter                                                                                              |
|      | • Video Splitter                       | VS102                              |                                                                                                                 |
|      | • Video Switch                         | VS201                              | First VGA switch                                                                                                |
|      | • Video Splitter                       | VS132                              | Increased bandwidth to 300 MHz                                                                                  |
|      | • Video Extender                       | VE120L / VE120R                    | First VGA over Cat 5 extender                                                                                   |
|      | • Video Splitter                       | VS92A / VS94A / VS98A              | Increased bandwidth to 250 MHz                                                                                  |
| 2006 | • Video Switch                         | VS881                              | Added IR remote control                                                                                         |
|      | • Video Switch                         | VS291 / VS491                      |                                                                                                                 |
|      | • Video Switch                         | VS1601                             | Added audio                                                                                                     |
|      | • Video Switch                         | VS231 / VS431                      | First HDTV AV switch                                                                                            |
|      | • Video Splitter                       | VS0116                             | Added audio                                                                                                     |
|      | • Video Matrix Switch                  | VS0202 / VS0204                    | First VGA matrix switch                                                                                         |
| 2007 | • DVI Switch                           | VS261 / VS461                      | First DVI switch                                                                                                |
|      | • HDMI Switch                          | VS481A                             | First HDMI switch                                                                                               |
|      | • DVI Splitter                         | VS162 / VS164                      | First DVI splitter                                                                                              |
| 2008 | • HDMI Splitter                        | VS182 / VS184                      | First HDMI splitter                                                                                             |
|      | • Media Distribution Solution          | VS1504 / VS1508 + VB552            | First complete high resolution, long distance VGA digital signage solution with serial RS-232 and audio support |
|      | • HDMI Extender                        | VE800                              | First HDMI extender                                                                                             |
|      | • Video Splitter                       | VS132A / VS134A / VS138A           | Increased bandwidth to 450 MHz; increased resolution to 2048 x 1536                                             |
|      | • Audio / Video Extender               | VE200                              | First VGA with audio and serial extender added                                                                  |
| 2009 | • Video Splitter                       | VS92A / VS94A / VS98A              | Increased bandwidth to 350 MHz                                                                                  |
|      | • DVI Extender                         | VE066                              | First mini DVI extender                                                                                         |
|      | • HDMI Switch                          | VS0801H                            |                                                                                                                 |
|      | • HDMI Splitter                        | VS0108H                            |                                                                                                                 |
| 2010 | • HDMI Matrix Switch                   | VM0404H                            | First HDMI matrix switch                                                                                        |
|      | • Media Matrix Switch                  | VM0808T                            | First VGA-over-Cat 5 + audio matrix switch                                                                      |
|      | • Audio/Video Extender                 | VE500                              | VGA + balanced audio + Deskew extender                                                                          |
|      | • Media Distribution Solution          | VS1204T / VS1208T + VE170R / RQ    | Complete high resolution, long distance VGA digital signage solution with audio support                         |
|      | • Video Switch                         | VS0801                             | 8-port VGA Switch + Audio                                                                                       |
| 2011 | • HDMI Media Distribution Solution     | VS1804T / VS1808T + VE800R + VB802 | First complete long distance HDMI digital signage solution                                                      |
|      | • VGA to HDMI Converter                | VC180                              |                                                                                                                 |
|      | • HDMI Repeater Plus Audio De-embedder | VC880                              |                                                                                                                 |
|      | • Dual View HDMI Switch                | VS482                              | HDMI switch with ARC (Audio Return Channel) function                                                            |
|      | • Mini Cat 5 A/V Extender              | VE022                              |                                                                                                                 |
|      | • DVI Extender with Audio              | VE600A                             |                                                                                                                 |
|      | • Mini DisplayPort Adapter             | VC920 / VC960 / VC980              |                                                                                                                 |

| Year | Landmark                                                                                                                                                                                                                                                                                                                                               | Product Name                                                                                                                              | Key Technology Advance                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012 | <ul style="list-style-type: none"> <li>Media Matrix Solutions</li> <li>HDMI Matrix Switch</li> <li>Video Matrix Switch + Audio</li> <li>VGA Switch with Audio</li> <li>DVI Dual Link Splitter with Audio</li> <li>VGA Splitter</li> <li>HDMI Extender over single Cat 5 with Dual Display</li> <li>Universal A/V to HDMI Switch with Scaler</li> </ul> | VM0808T / VM1616T + VE500 / VE300<br>VM0808H<br>VM0808<br>VS0201 / VS0401<br>VS172 / VS174<br>VS0102 / VS0104 / VS0108<br>VE814<br>VC1080 | First video extender to support 4K<br>First universal switch to support scaler functionality                                                                                                        |
| 2013 | <ul style="list-style-type: none"> <li>HDMI Media Distribution Solution</li> <li>8 x 8 HDMI Matrix Switch with Scaler</li> <li>Video Extender with Cascade</li> <li>VGA/DVI/HDMI Over Cat 5 Extender Wall Plate</li> </ul>                                                                                                                             | VS1814T / VS1818T + VE812R<br>VM5808H<br>VE172R<br>VE156 / VE606 / VE806                                                                  | Implemented HDBaseT solution<br>First matrix switch to support Seamless Switch™ functionality<br>Supports up to 10 Levels<br>First extender with wall plate design                                  |
| 2014 | <ul style="list-style-type: none"> <li>Modular Matrix Solution Series</li> <li>3G / HD / SD-SDI Splitter</li> <li>HDMI Active Optical Cable</li> </ul>                                                                                                                                                                                                 | VM1600 + VM7604 / VM8604 + VM7804 / VM8804<br>VS146<br>VE872 / VE873                                                                      | First Modular Matrix Switch solution with Seamless Switch™ technology, ideal for video wall integration<br>First SDI video splitter<br>An active optical cable with exclusive ATEN AOC+™ technology |
| 2015 | <ul style="list-style-type: none"> <li>ATEN Control System</li> <li>Serial Expansion Box</li> <li>4 x 4 / 9 x 9 HDMI HDBaseT-Lite Matrix Switch</li> <li>12-Port DP Video Wall Media Player</li> </ul>                                                                                                                                                 | VK2100 / VK6000 / App VK224<br>VM3404H / VM3909H<br>VS1912                                                                                | First control system<br>First expansion box for ATEN Control System<br>First HDBaseT-Lite matrix switch<br>First media player                                                                       |
| 2016 | <ul style="list-style-type: none"> <li>Expansion Box</li> <li>Modular Matrix Series</li> <li>DisplayPort Splitter</li> <li>DisplayPort Extender</li> </ul>                                                                                                                                                                                             | VK236 / VK248<br>VM3200<br>VS192 / VS194<br>VE901                                                                                         | First DisplayPort Splitter<br>First DisplayPort Extender                                                                                                                                            |
| 2017 | <ul style="list-style-type: none"> <li>True 4K HDMI Splitter and Booster</li> <li>HDMI over IP Extender</li> </ul>                                                                                                                                                                                                                                     | VS182B / VS184B<br>VB800<br>VE8900 / VE8950                                                                                               | First Splitter and Booster supports up to True 4K<br>First Video over IP Extender                                                                                                                   |
| 2018 | <ul style="list-style-type: none"> <li>Presentation Switch Series</li> </ul>                                                                                                                                                                                                                                                                           | VP1920 / VP2730                                                                                                                           | First ATEN Presentation Switch                                                                                                                                                                      |



## ATEN Professional AV Technologies

### ▶ Seamless Switch™

ATEN Seamless Switch™ technology features instantaneous video switching to deliver Full HD video powered by an exclusive seamless engine implemented at each output port. This high-performance engine processes AV signals by executing EDID and HDCP handshakes simultaneously at both source and display ends, scaling inputs for the best output resolution while setting the output clock timing and using a frame buffer to retain input signal information for the fastest output. This innovative processing of high-speed signals contributes to continuous video streams, real-time switching and stable signal transmission.

### ▶ Video Wall Integration with Scaler

A unique Scaler utilizing ATEN FPGA technology is built into ATEN's Seamless Switch™ Series to unify various video input signals and render optimum output resolutions on displays with uncompromised precision. Through an intuitive web GUI video wall profiles can be created with custom screen layouts for a wide range of Pro AV applications. Integrating a video wall processor and matrix switching capability, these products simplify the installation process and contribute to cost-effective management.

### ▶ FrameSync

ATEN's FrameSync Technology prevents screen tearing by synchronizing the frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls, especially when a fast-moving object appears on the screen.

### ▶ True 4K Support with HDR

ATEN offers a comprehensive portfolio of True 4K Pro AV solutions with High Dynamic Range (HDR) technology support that provide high-performance signal switching, extension, splitting, routing and distribution to deliver the ultimate visual experience with exceptional sharp and vibrant video quality. The series products are fully tested and certified to ensure full HDR support. Identify the right products for your performance requirements by looking for the ATEN True 4K and HDR logos.





### ▶ HDBaseT™ Technology

HDBaseT™ is a connectivity standard for whole-home and commercial distribution of uncompressed HD multimedia content. The cornerstone of HDBaseT™ technology is that it combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through a single Cat 5e/6a cable. HDBaseT™ is optimized for professional AV installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters.

### ▶ ATEN Exclusive Video Compensation technology

ATEN's patented video compensation technology permits video signals to be transmitted over long distances more accurately, improving upon the previous design by minimizing inaccuracy from 10 m to only 1 m. This technology not only improves the brightness but also achieves a higher skew tolerance for our video extender products.

### ▶ Deskew

ATEN's automatic and manual delay line synchronizing functions correct the color phase and time errors that occur when R/G/B video signals are sent long distances over Cat 5e/6 cables. ATEN's Deskew technology enables you to manually tune the R/G/B signals to ensure stable, high quality video in any extended video installation.

### ▶ EDID Expert™

ATEN offers an extensive portfolio of Pro AV products with selectable EDID modes to fulfill the requirements of different applications. In most cases where multiple video sources and displays or long-distance transmissions are demanded, the ATEN EDID Expert™ technology offers applicable EDID modes for selection that optimize the output capability throughout the installation for faster and very smooth video performance.

*(See more details about ATEN EDID modes on the next page.)*



# The Distinguished Technologies of VanCryst™ Products

## • ATEN EDID Modes

The EDID Expert offers several EDID modes for selection, including **Default**, **Port 1**, **Auto**, **Remix**, **Learn**, and **Customized** modes, and each is defined as follows:

- **Default:** This mode applies ATEN's default EDID data to all video sources by default when the system is powered on.
- **Port 1:** This mode applies the EDID data read from port 1 to all video sources. The system will enforce Default EDID data to all sources if port 1 is not occupied.
- **Auto:** This mode reads mixed EDID data from all connected displays and generates the optimum EDID for all video sources. The system will automatically re-generate a new EDID whenever a device is plugged in.
- **Remix:** This mode reads mixed EDID data from all connected displays and generates the optimum EDID for all video sources. The system will not re-generate a new EDID when a device is plugged in, unless triggered by a pushbutton or commands.
- **Learn:** This mode applies the EDID data of a specific display to all video sources. The system will not re-generate a new EDID when a device is plugged in, unless triggered by a pushbutton or commands.
- **Customized:** This mode allows user-defined EDID configurations for optimum output.

## • Supported Video Resolutions in Default Mode

Supported video resolutions in Default EDID mode may vary upon the type of interface connected:

### HDMI

|                           |                    |
|---------------------------|--------------------|
| 640x480 @ 60 Hz           | 1920x1080 @ 60 Hz  |
| 640x480 @ 67 Hz           | 1920x1200 @ 60 Hz  |
| 640x480 @ 72 Hz           | 3840x2160p @ 60 Hz |
| 640x480 @ 75 Hz           | 3840x2160p @ 50 Hz |
| 800x600 @ 56 Hz           | 3840x2160p @ 30 Hz |
| 800x600 @ 60 Hz           | 3840x2160p @ 25 Hz |
| 800x600 @ 72 Hz           | 3840x2160p @ 24 Hz |
| 800x600 @ 75 Hz           | 4096x2160p @ 60 Hz |
| 1024x768 @ 60 Hz          | 4096x2160p @ 50 Hz |
| 1024x768 @ 70 Hz          | 4096x2160p @ 30 Hz |
| 1024x768 @ 75 Hz          | 4096x2160p @ 25 Hz |
| 1280x720 @ 60 Hz (Native) | 4096x2160p @ 24 Hz |
| 1280x800 @ 60 Hz          | 480p               |
| 1280x1024 @ 60 Hz         | 576p               |
| 1280x1024 @ 75 Hz         | 720p 50Hz          |
| 1366x768 @ 60 Hz          | 720p 60Hz          |
| 1400x900 @ 60 Hz          | 1080i 50Hz         |
| 1440x1050 @ 60 Hz         | 1080i 60Hz         |
| 1600x1200 @ 60 Hz         | 1080p 60Hz         |
| 1680x1050 @ 60 Hz         |                    |

Note: From firmware version V1.0.079

#### DVI

|                  |                            |
|------------------|----------------------------|
| 640x480 @ 60 Hz  | 1280x800 @ 60 Hz           |
| 640x480 @ 67 Hz  | 1280x1024 @ 60 Hz          |
| 640x480 @ 72 Hz  | 1280x1024 @ 75 Hz          |
| 640x480 @ 75 Hz  | 1366x768 @ 60 Hz           |
| 800x600 @ 56 Hz  | 1400x900 @ 60 Hz           |
| 800x600 @ 60 Hz  | 1440x1050 @ 60 Hz          |
| 800x600 @ 72 Hz  | 1600x1200 @ 60 Hz          |
| 800x600 @ 75 Hz  | 1680x1050 @ 60 Hz          |
| 1024x768 @ 60 Hz | 1920x1080 @ 60 Hz (Native) |
| 1024x768 @ 70 Hz | 1920x1200 @ 60 Hz          |
| 1024x768 @ 75 Hz | 2560x1600 @ 60 Hz          |
| 1280x720 @ 60 Hz |                            |

Note: From firmware version v1.0.075

#### VGA

|                           |                   |
|---------------------------|-------------------|
| 640x480 @ 60 Hz           | 1152x870 @ 75 Hz  |
| 640x480 @ 67 Hz           | 1280x800 @ 60 Hz  |
| 640x480 @ 72 Hz           | 1280x1024 @ 60 Hz |
| 640x480 @ 75 Hz           | 1280x1024 @ 75 Hz |
| 800x600 @ 56 Hz           | 1366x768 @ 60 Hz  |
| 800x600 @ 60 Hz           | 1400x900 @ 60 Hz  |
| 800x600 @ 72 Hz           | 1440x1050 @ 60 Hz |
| 800x600 @ 75 Hz           | 1600x1200 @ 60 Hz |
| 832x624 @ 75 Hz           | 1680x1050 @ 60 Hz |
| 1024x768 @ 60 Hz (Native) | 1920x1080 @ 60 Hz |
| 1024x768 @ 70 Hz          | 1920x1200 @ 60 Hz |
| 1024x768 @ 75 Hz          |                   |



# Why Choose ATEN VanCryst™ Professional AV Solutions?

## 40 Years of Experience

ATEN has been at the forefront of the data communication and connectivity industries since 1979 and has been an international leader in the entry- to mid-level KVM switch market for nearly 40 years. Our ATEN Professional AV Solutions have developed alongside our KVM expertise and now we are leveraging these enhanced video and control capabilities to expand further into this technology-intensive field. From our first video switch in 1993 to today's cutting-edge Modular Matrix Switch, 4K over IP Extender and a series of 4K/True 4K devices, we have been continually creating, developing and expanding our video products range. Given ATEN's experience and expertise in video-related technologies, it simply makes sense to source your ATEN Professional AV Solutions from us.

## Flexible, Integrated Solutions

ATEN Professional AV Solutions give you crystal clear images from all vantage points – at home, in the office, and in commercial, industrial, information and entertainment environments. We have a full range of components that can be leveraged in different ways to fulfill the needs of various industries. From switches and splitters to extenders and converters – our range of video products provide you with a multitude of flexible, integrated solutions for all video-related applications. From installers looking for components to specialized providers looking for total video solutions, there is an ATEN product to meet all your professional AV needs. Why not let our vision become your advantage?

## Quality Engineering

At ATEN, we employ engineers who are experts in their fields and provide them with an environment where they can thrive and give wings to their ideas. In return, our teams of resourceful and talented R&D professionals supply us with a continuous array of hi-tech video innovations that we are proud to supply to our customers. In addition to top quality engineering, every component is carefully selected and rigorously tested throughout the design and production process to ensure that ATEN only supplies video products of the highest quality where you can get the reliability and performance you demand.





### Total Customer Satisfaction

Customer satisfaction has and always will be the number one priority at ATEN. To ensure this, excellence is pursued at every stage. We provide a constant stream of new products with innovative technologies. We can be relied upon for the highest quality manufacturing and for timely deliveries. We have a wealth of dedicated and talented sales service personnel, backed up by experienced technicians, who provide unparalleled customer support. All of this adds up to total customer satisfaction. We have a proven track-record of superlative after-sales and technical support for customers, re-sellers and partners across the board. There is no need to settle for less.

### Exceptional Price Performance

One final reason to choose ATEN Professional AV Solutions is the exceptional performance they offer at considerably lower prices than the majority of the competition. ATEN prices might not be the very lowest on the market, but they certainly offer the best price-to-value ratio in terms of quality, performance, and after-sales support. Dollar-for-dollar, ATEN Professional AV Solutions outperform the competition. And the benefits of our know-how and high-tech automated manufacturing process are passed onto our customers who, in turn, are able to be competitive in their own markets. Get more for your money and reap the rewards with ATEN Professional AV Solutions.

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## Products

At the frontline of AV/IT convergence, ATEN's VanCryst™ professional AV products provide the components to build flexible, integrated solutions for video-related applications.

With support for all current video interfaces, extensive audio support, and the latest in cutting-edge AV control, ATEN VanCryst™ professional AV solutions always deliver the ultimate visual experience. Whatever your digital performance requirements, seamlessly transition to the highest resolutions and future-proof your video installation with ATEN VanCryst™ professional AV solutions.

Identify the right products for your performance requirements:

- ATEN Control System
- Management Software
- Presentation Switch Series
- Modular Matrix Solution Series
- Media Distribution Solution Series
- Video Matrix Switches
- Video Switches
- Video Splitters
- Video Extenders / Video Boosters
- Video Converters
- Multi-View KVMP Switches
- Cables



# ATEN Control System

The ATEN Control System is a standard Ethernet-based management system that connects all the hardware devices in a room or large facility to provide centralized control directly and effortlessly from a mobile device and tablet computer.

The ATEN Control System can easily deploy into an existing installation and integrate seamlessly with ATEN Pro AV products, AV equipment, lighting systems, air conditioning, motion sensors, power switches and much more.

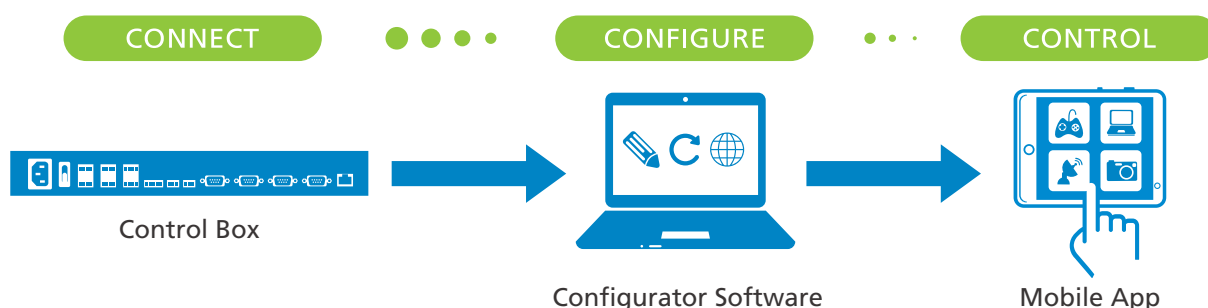
The ATEN Control System is perfectly applicable in meeting rooms, conference centers, boardrooms, classrooms or any room that requires collaboration of a variety of hardware devices through a streamlined management with optimum efficiency and performance.



## How to Deploy the ATEN Control System?

No matter how large the room or how complicated the hardware, deploying the ATEN Control System can be completed in 3 easy steps:

- CONNECT all hardware to the Controller.
- CONFIGURE system settings with the Configurator Software.
- CONTROL the hardware from a mobile device via the Mobile App or Keypad.



## Specifications at a Glance

| Controller                                       | VK2100           | VK1100                      | VK0100                   | VK0200                   |
|--------------------------------------------------|------------------|-----------------------------|--------------------------|--------------------------|
| Type                                             | Control Box (1U) | Control Box (1/2 Rack Wide) | Control Pad (US, 1 Gang) | Control Pad (EU, 2 Gang) |
| Serial                                           | 6                | 2                           | 2                        | 2                        |
| IR/Serial                                        | 4                | 2                           | N/A                      | N/A                      |
| Relay                                            | 4                | 4                           | 2                        | 2                        |
| Digital I/O                                      | 4                | N/A                         | 1                        | 1                        |
| Ethernet                                         | •                | •                           | •                        | •                        |
| USB                                              | •                | •                           | N/A                      | N/A                      |
| DC 12V Power Supply                              | 2A               | 1A                          | N/A                      | N/A                      |
| POE                                              | N/A              | N/A                         | •                        | •                        |
| IR Learning                                      | •                | •                           | N/A                      | N/A                      |
| Max. No. of 3rd Party Ethernet Devices Connected | 25               | 25                          | 8                        | 8                        |
| Max No. of Viewers & Keypad Connected*           | 10               | 10                          | 10                       | 10                       |
| No. of Keypad buttons                            | N/A              | N/A                         | 4-8                      | 6-12                     |
| Layout Combinations                              | N/A              | N/A                         | 14                       | 125                      |

| Expansion Box                              | VK224  | VK236    | VK248 |
|--------------------------------------------|--------|----------|-------|
| Interface                                  | Serial | IR/RS232 | Relay |
| Number of Ports                            | 4      | 6        | 8     |
| POE                                        | •      | •        | •     |
| Max. No. of Expansion Boxes per Controller | 8      | 8        | 8     |

| Keypad                              | VK108US      | VK112EU      |
|-------------------------------------|--------------|--------------|
| Type                                | US, 1 Gang   | EU, 2 Gang   |
| No. of Buttons                      | 4-8          | 6-12         |
| Layout Combinations                 | 14           | 125          |
| Power Supply                        | DC 5V or PoE | DC 5V or PoE |
| Max. No. of Keypads per Control Box | 8            | 8            |

Note: \*Contact your local sales representative if you require more than 10 connections. Please note that Control Pads do not support Keypad connections.



- **Intelligent Control**

Your devices can interact and respond to each other intelligently through pre-programmed actions to perform a fully automated series of advanced operations.

- **Real-time Synchronization**

Actual equipment status is synchronized in real-time across all control interfaces, enabling conflict-free control among multiple users simultaneously.

- **Simplified Setup**

The ATEN Control System is deployed in 3 easy steps: Connect, Configure, and Control. Easily set up and customize control patterns without any programming knowledge.

- **Effortless Expansion**

Highly expandable with a wide range of ATEN expansion boxes, a database of 10,000+ device drivers, and support for popular control standards and protocols.



- **User-centered Convenience**

An advanced, single-software solution creates intuitive control interfaces for any mobile device while specific needs can be conveniently tailored by selecting from an extensive library of action options and design elements.

- **On-the-Go Control**

Support for iOS, Android and Windows mobile devices facilitates centralized control of different rooms via user-defined profiles with simple point-n-tap operations.

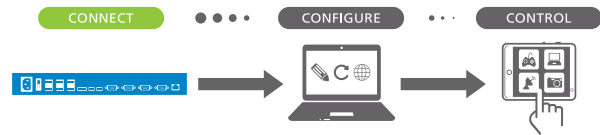


- **Integration Partners**

ATEN collaborates with professional AV partners to provide complete total solutions for applications of all sizes.



# VK2100 Control Box



## Features

- Supports various interfaces:
  - 6 x Serial ports
  - 4 x IR / RS-232 ports
  - 4 x Relay channels
  - 4 x I/O channels
  - 1 x Ethernet port
- 4 x 12 VDC outputs for power supply connection
- 1 x USB port for easy profile upload
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports project file backup<sup>1</sup>
- Easy system configuration via web GUI
- Supports SSH communication for data monitoring<sup>2</sup>
- LED indication of connection and hardware status
- 2 free licenses for mobile control<sup>3</sup>
- Rack-mountable (1U)

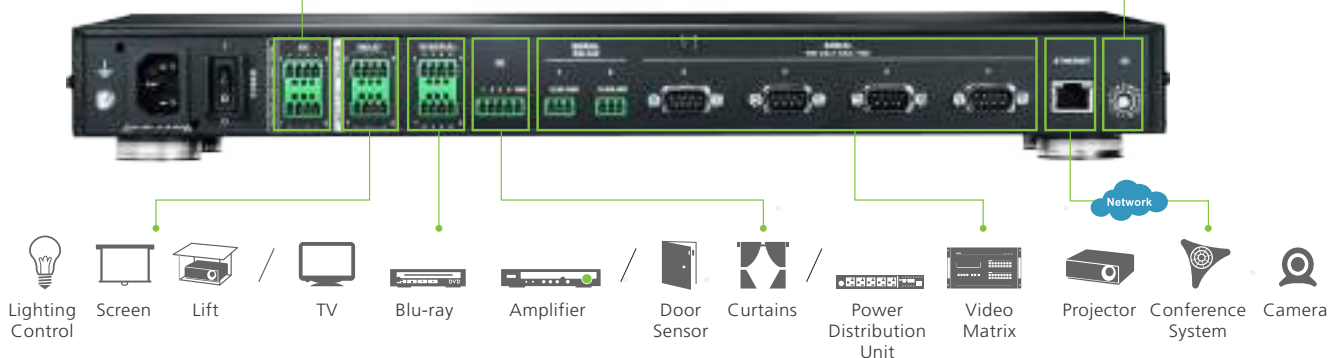
Note: 1.Each ATEN Control Box is capable of backing up one project file.  
 2.The SSH protocol can be used for monitoring the receiving/ transmission data of the Control Box.  
 3.If you require more than 2 licenses, contact the local sales representative.

LED indication for hardware status and active messages



4 DC outputs provide power supply of 24 W max.

Controller ID switch for easy IP setting



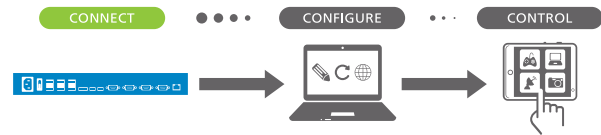
## Specifications

| Function                    | VK2100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Serial                      | <ul style="list-style-type: none"> <li>• 4 x Programmable Bi-directional RS-232/422/485 Ports (4 x DB9 Male Connectors, configurable via pin assignments);               <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd;</li> <li>– Flow Control: None (default) RTS/CTS</li> </ul> </li> <li>• 2 x Bi-directional RS-232 Ports (2 x 3-Pole Terminal Block Connectors);               <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), even or odd</li> </ul> </li> </ul> |
| IR/Serial                   | <ul style="list-style-type: none"> <li>• 4 x Programmable IR / Uni-directional RS-232 Ports (2 x 4-Pole Terminal Block Connectors);               <ul style="list-style-type: none"> <li>IR: TTL level (0 to 5 V)</li> <li>– Carrier Frequency: 10KHz~455KHz;</li> <li>Serial: Uni-directional RS-232 ( + - 5 V)</li> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                     |
| I/O                         | <ul style="list-style-type: none"> <li>• 4 x Programmable Digital Input / Output Channels (1 x 5-Pole Terminal Block Connector);               <ul style="list-style-type: none"> <li>Digital Output: 250 mA sink from 12 VDC</li> <li>Digital Input:                   <ul style="list-style-type: none"> <li>– VDC Mode</li> </ul> </li> <li>Input Voltage Range: 0 to 24 VDC; Programmable Range: 1 to 24 VDC;</li> <li>– Dry Contact Mode</li> <li>Pull-up 2k ohms to + 12 VDC</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                     |
| Relay                       | <ul style="list-style-type: none"> <li>• 4 x Relay Channels (2 x 4-Pole Terminal Block Connector);</li> <li>• Normally open, isolated Relays;</li> <li>• Contact Rating: Max 24 VDC, 2A</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| VDC                         | <ul style="list-style-type: none"> <li>• 4 x 12 VDC Output Ports (2 x 4-Pole Terminal Block Connectors);</li> <li>• Power Supply: 12 VDC, 2A Max (shared by 4 ports)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ethernet                    | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:               <ul style="list-style-type: none"> <li>IP: 192.168.0.60; Subnet Mask: 255.255.255.0</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Switches</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Controller ID               | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power                       | 1 x On/Off Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>IR Learning</b>          | 1 x IR Receiver LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reset Button</b>         | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>USB</b>                  | 1 x USB Type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Power</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Consumption                 | AC110V: 4.8W; AC220V: 5.7W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum Input Power Rating  | Internal Power: 100-240 VAC, 50-60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Environmental</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operating Temperature       | 0 – 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Storage Temperature         | –20 – 60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Housing                     | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Weight                      | 2.64 kg ( 5.81 lb )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dimensions (L x W x H)      | 43.72 x 16.32 x 4.40 cm (17.21 x 6.43 x 1.73 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>License</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Basic (free)                | 2 free licenses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max. No. Allowed            | 10 licenses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Included Accessories</b> | 1x Power Cord; 9x Terminal Blocks; 1x Mounting Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Optional Accessories

| Description                    | Part No. / Spec. | Page No.     |
|--------------------------------|------------------|--------------|
| Full Range IR Emitter (1.8 m)  | 2XRT-0004G       | 13-2         |
| 4-Port Serial Expansion Box    | VK224            | 1-11         |
| 6-Port IR/Serial Expansion Box | VK236            | 1-12         |
| 8-Channel Relay Expansion Box  | VK248            | 1-13         |
| 8-Button Keypad (US, 1 Gang)   | VK108US          | 1-19         |
| 12-Button Keypad (EU, 2 Gang)  | VK112EU          | 1-18         |
| 8-Outlet eco PDU               | PE6208AVX        | NRGence 2-8  |
| DB9-F to RJ45-F Adaptor        | SA0141           | Altusen 6-10 |
| RJ45-F to DB9-M Adaptor        | SA0145           | Altusen 6-10 |

## VK1100 Compact Control Box



### Features

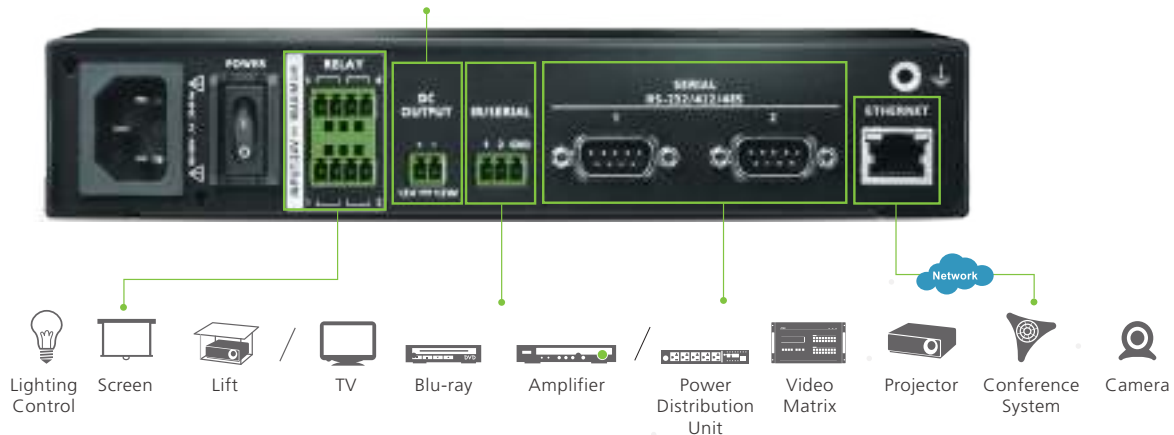
- Supports various interfaces:
  - 2 x Serial ports
  - 2 x IR / RS-232 ports
  - 4 x Relay channels
  - 1 x Ethernet port
- 1 x 12 VDC outputs for power supply connections
- 1 x USB port for easy profile upload
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports project file backup<sup>1</sup>
- Easy system configuration via web GUI
- Supports SSH communication for data monitoring<sup>2</sup>
- LED indication of connection and hardware status
- 2 free licenses for mobile control<sup>3</sup>

Note: 1.Each ATEN Control Box is capable of backing up one project file.  
 2.The SSH protocol can be used for monitoring the receiving/ transmission data of the Control Box.  
 3.If you require more than 2 licenses, contact the local sales representative.

LED indication for hardware status and active messages



DC output provides power supply of 12W max.





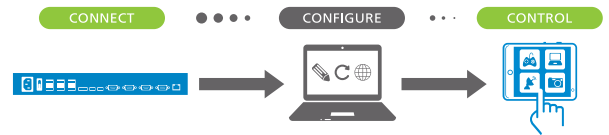
## Specifications

| Function                    | VK1100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Serial                      | <ul style="list-style-type: none"> <li>• 2 x Programmable Bi-directional RS-232/422/485 Ports (2 x DB9 Male Connectors, configurable via pin assignments);</li> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd;</li> <li>– Flow Control: None (default) RTS/CTS</li> </ul>                                                                                |
| IR/Serial                   | <ul style="list-style-type: none"> <li>• 2 x Programmable IR / Uni-directional RS-232 Ports (1 x 3-Pole Terminal Block Connector);</li> </ul> <b>IR:</b> <ul style="list-style-type: none"> <li>– Carrier Frequency: 10KHz~455KHz;</li> </ul> <b>Serial:</b> <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd</li> </ul> |
| Relay                       | <ul style="list-style-type: none"> <li>• 4 x Relay Channel (2 x 4-Pole Terminal Block Connectors);</li> <li>• Normally open, isolated relays;</li> <li>• Contact Rating: Max 24 VDC, 2A</li> </ul>                                                                                                                                                                                                                                                                                      |
| VDC                         | <ul style="list-style-type: none"> <li>• 1 x 12 VDC Output Port (1 x 2-Pole Terminal Block Connector);</li> <li>• Power Supply: 12 VDC, 1A Max</li> </ul>                                                                                                                                                                                                                                                                                                                               |
| Ethernet                    | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li> </ul>                                                                                                                                                               |
| <b>Switches</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Controller ID               | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power                       | 1 x On/Off Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>IR Learning</b>          | 1 x IR Receiver LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reset Button</b>         | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>USB</b>                  | 1 x USB Type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Power</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Consumption                 | AC110V: 5.4W; AC220V: 5.4W                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum Input Power Rating  | Internal Power: 100-240 VAC, 50-60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Environmental</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Operating Temperature       | 0 – 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Temperature         | -20 – 60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Housing                     | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Weight                      | 1.19 kg (2.62 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dimensions (L x W x H)      | 21.50 x 16.23 x 4.18 cm (8.46 x 6.39 x 1.65 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>License</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Basic (free)                | 2 free licenses                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Max. No. Allowed            | 10 licenses                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Included Accessories</b> | 1x Power Cord; 4x Terminal Blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Optional Accessories

| Description                    | Part No. / Spec. | Page No.     |
|--------------------------------|------------------|--------------|
| Full Range IR Emitter (1.8 m)  | 2XRT-0004G       | 13-2         |
| Single Rack Mount Kit          | 2X-031G          | 13-2         |
| 4-Port Serial Expansion Box    | VK224            | 1-11         |
| 6-Port IR/Serial Expansion Box | VK236            | 1-12         |
| 8-Channel Relay Expansion Box  | VK248            | 1-13         |
| 8-Button Keypad (US, 1 Gang)   | VK108US          | 1-19         |
| 12-Button Keypad (EU, 2 Gang)  | VK112EU          | 1-18         |
| 8-Outlet eco PDU               | PE6208AVX        | NRGence 2-8  |
| DB9-F to RJ45-F Adaptor        | SA0141           | Altusen 6-10 |
| RJ45-F to DB9-M Adaptor        | SA0145           | Altusen 6-10 |

## VK0200 12-Button Control Pad (EU, 2 Gang)



Front



Rear



Side



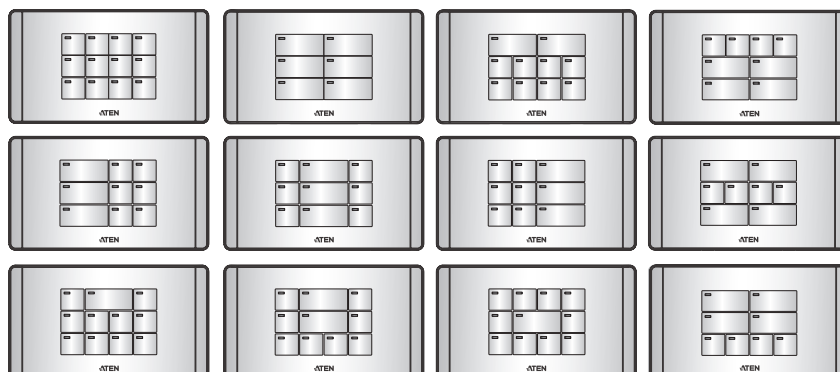
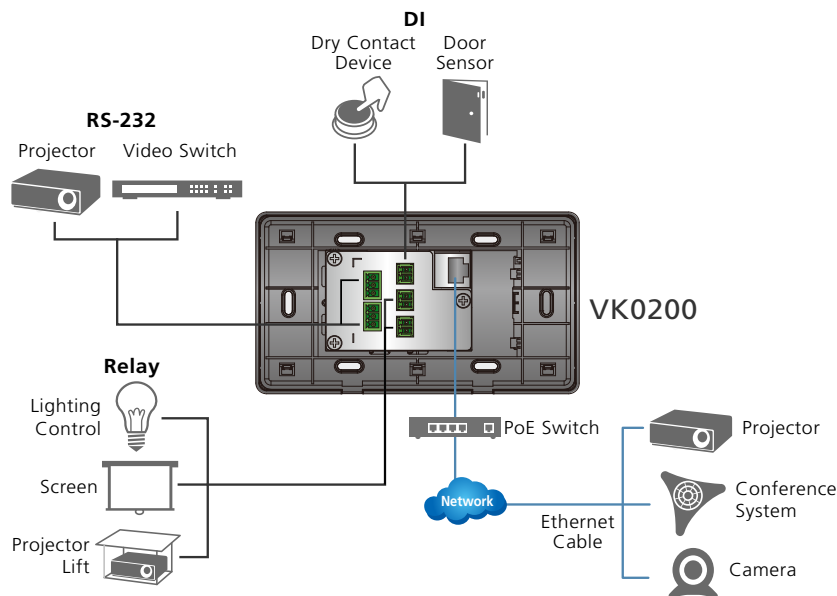
### Features

- Supports various interface connections:
  - 2 x RS-232 ports
  - 2 x Relay channels
  - 1 x Digital input channel
  - 1 x Ethernet port
- Designed to mount in 2-gang EU-type and MK-type junction boxes
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PLink compliant
- Supports project file backup<sup>1</sup>
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring<sup>2</sup>
- LED indication of connection and hardware status
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

Note: 1. Each ATEN Controller is capable of backing up one project file.

2. The SSH protocol can be used for monitoring the receiving/transmission data of the Control Pad.

### Setup > VK0200



Custom button placement on the Control Pad can be set in 125 different combinations of 6 to 12 buttons. The example above shows the 12 most commonly used.

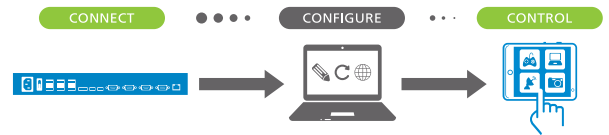
## Specifications

| Function                         | VK0200                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>                |                                                                                                                                                                                                                                                                                                                           |
| Keypad Layout                    | 6~12 buttons customizable in 125 keypad layouts                                                                                                                                                                                                                                                                           |
| Serial                           | <ul style="list-style-type: none"> <li>• 2 x Bi-directional RS-232 Port (2 x 3-Pole Terminal Block Connector);</li> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), even or odd</li> </ul>               |
| Relay                            | <ul style="list-style-type: none"> <li>• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector);</li> <li>• Normally open, isolated Relays;</li> <li>• Contact Rating: Max 24 VDC, 1A</li> </ul>                                                                                                                         |
| I/O                              | <ul style="list-style-type: none"> <li>• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector);</li> <li>– VDC Mode</li> <li>Input Voltage Range: 0 to 5 VDC;</li> <li>Programmable Range: 1 to 5 VDC;</li> <li>– Dry Contact Mode</li> <li>Pull-up 2k ohms to + 5 VDC</li> </ul>                               |
| Ethernet                         | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li> </ul> |
| <b>Switches</b>                  |                                                                                                                                                                                                                                                                                                                           |
| Controller ID                    | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                     |
| Reset Button                     | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                              |
| Power Consumption                | DC5V: 1.15W; DC48V: 1.44W                                                                                                                                                                                                                                                                                                 |
| <b>Environmental</b>             |                                                                                                                                                                                                                                                                                                                           |
| Operating Temperature            | 0 – 50°C                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature              | –20 – 60°C                                                                                                                                                                                                                                                                                                                |
| Humidity                         | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                |
| <b>Physical Properties</b>       |                                                                                                                                                                                                                                                                                                                           |
| Housing                          | Plastic                                                                                                                                                                                                                                                                                                                   |
| Weight                           | 0.17 kg (0.37 lb)                                                                                                                                                                                                                                                                                                         |
| Dimensions (L x W x H)           | 8.32 x 14.76 x 4.84 cm (3.28 x 5.81 x 1.91 in.)                                                                                                                                                                                                                                                                           |
| Faceplate Dimensions (L x W x H) | 8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)                                                                                                                                                                                                                                                                           |
| <b>Carton Lot</b>                | 5 pcs                                                                                                                                                                                                                                                                                                                     |
| <b>Included Accessories</b>      | 1 Button Pack; 6 Terminal Blocks; 1 Faceplate                                                                                                                                                                                                                                                                             |

## Optional Accessories

| Description                    | Part No. / Spec. | Page No.    |
|--------------------------------|------------------|-------------|
| 4-Port Serial Expansion Box    | VK224            | 1-11        |
| 6-Port IR/Serial Expansion Box | VK236            | 1-12        |
| 8-Channel Relay Expansion Box  | VK248            | 1-13        |
| 8-Outlet eco PDU               | PE6208AVX        | NRGence 2-8 |

## VK0100 8-Button Control Pad (US, 1 Gang)



### Front w / Faceplate

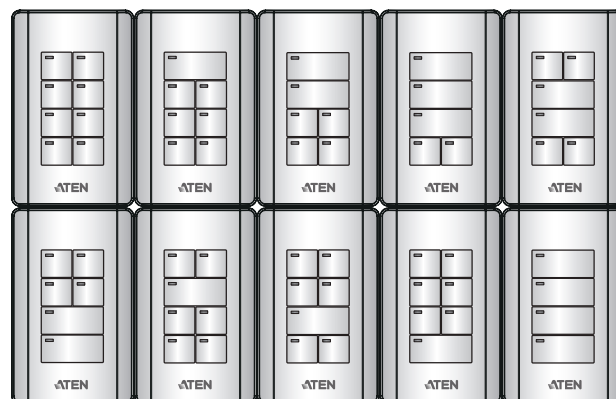
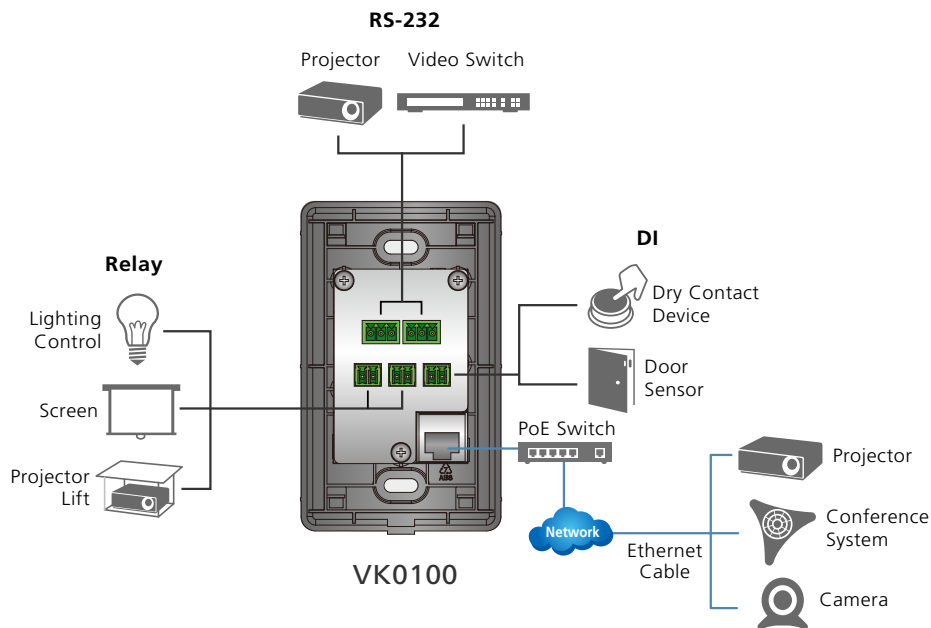


### Features

- Supports various interface connections:
  - 2 x RS-232 ports
  - 2 x Relay channels
  - 1 x Digital input channel
  - 1 x Ethernet port
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports project file backup<sup>1</sup>
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring<sup>2</sup>
- LED indication of connection and hardware status
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

Note: 1. Each ATEN Controller is capable of backing up one project file.  
 2. The SSH protocol can be used for monitoring the receiving/ transmission data of the Control Pad.

## Setup > VK0100



Custom button placement on the Control Pad can be set in 14 different combinations of 4 to 8 buttons. The example above shows the 10 most commonly used.

## Specifications

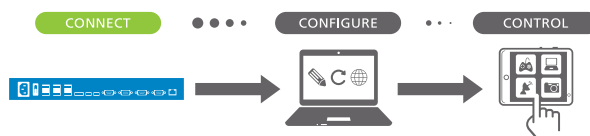
| Function                         | VK0100                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>                |                                                                                                                                                                                                                                                                                                                           |
| Keypad Layout                    | 4~8 buttons customizable in 14 keypad layouts                                                                                                                                                                                                                                                                             |
| Serial                           | <ul style="list-style-type: none"> <li>• 2 x Bi-directional RS-232 Port (2 x 3-Pole Terminal Block Connector);</li> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), even or odd</li> </ul>               |
| Relay                            | <ul style="list-style-type: none"> <li>• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector);</li> <li>• Normally open, isolated Relays;</li> <li>• Contact Rating: Max 24 VDC, 1A</li> </ul>                                                                                                                         |
| I/O                              | <ul style="list-style-type: none"> <li>• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector);</li> <li>– VDC Mode</li> <li>Input Voltage Range: 0 to 5 VDC;</li> <li>Programmable Range: 1 to 5 VDC;</li> <li>– Dry Contact Mode</li> <li>Pull-up 2k ohms to + 5 VDC</li> </ul>                               |
| Ethernet                         | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li> </ul> |
| <b>Switches</b>                  |                                                                                                                                                                                                                                                                                                                           |
| Controller ID                    | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                     |
| <b>Reset Button</b>              | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                              |
| <b>Power Consumption</b>         | DC5V: 1.16W; DC48V: 1.375W                                                                                                                                                                                                                                                                                                |
| <b>Environmental</b>             |                                                                                                                                                                                                                                                                                                                           |
| Operating Temperature            | 0 – 50°C                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature              | –20 – 60°C                                                                                                                                                                                                                                                                                                                |
| Humidity                         | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                |
| <b>Physical Properties</b>       |                                                                                                                                                                                                                                                                                                                           |
| Housing                          | Plastic                                                                                                                                                                                                                                                                                                                   |
| Weight                           | 0.14 kg (0.31 lb)                                                                                                                                                                                                                                                                                                         |
| Dimensions (L x W x H)           | 11.63 x 7.06 x 4.84 cm (4.58 x 2.78 x 1.91 in.)                                                                                                                                                                                                                                                                           |
| Faceplate Dimensions (L x W x H) | 11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)                                                                                                                                                                                                                                                                           |
| <b>Carton Lot</b>                | 5 pcs                                                                                                                                                                                                                                                                                                                     |
| <b>Included Accessories</b>      | 1 Button Pack; 6 Terminal Blocks; 1 Faceplate                                                                                                                                                                                                                                                                             |

## Optional Accessories

| Description                    | Part No. / Spec. | Page No.    |
|--------------------------------|------------------|-------------|
| 4-Port Serial Expansion Box    | VK224            | 1-11        |
| 6-Port IR/Serial Expansion Box | VK236            | 1-12        |
| 8-Channel Relay Expansion Box  | VK248            | 1-13        |
| 8-Outlet eco PDU               | PE6208AVX        | NRGence 2-8 |



## VK224 4-Port Serial Expansion Box



Front



Rear



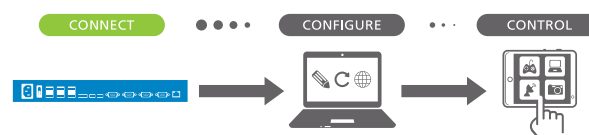
### Features

- Provides 4 bi-directional RS-232/422/485 serial ports to expand the ATEN Control System
- Up to eight VK224 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK224 with a controller to instantly configure the network settings
- **Supports Power over Ethernet (PoE) or DC power supply**
- Firmware upgradable through USB or Web interface

### Specifications

| Function               | VK224                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| Interfaces             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |
| Serial                 | <ul style="list-style-type: none"><li>• 4 x Programmable Bi-directional RS-232/422/485 Ports (4 x DB9 Male Connectors, configurable via pin assignments);<ul style="list-style-type: none"><li>– Baud Rate: 300 to 115200 (default: 9600);</li><li>– Data Bit: 8 (default) or 7;</li><li>– Stop Bit: 1 (default) or 2;</li><li>– Parity: None (default), Even or Odd;</li><li>– Flow Control: None (default) RTS/CTS</li></ul></li></ul> |            |          |
|                        | RS-232                                                                                                                                                                                                                                                                                                                                                                                                                                   | RS-422     | RS-485   |
|                        | Pin2: RX                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pin 1:RX-  | Pin3:D+  |
|                        | Pin3: TX                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pin 2: RX+ | Pin 4:D- |
|                        | Pin 5: GND                                                                                                                                                                                                                                                                                                                                                                                                                               | Pin 3: TX+ |          |
|                        | Pin 7: RTS                                                                                                                                                                                                                                                                                                                                                                                                                               | Pin 4: TX- |          |
|                        | Pin 8: CTS                                                                                                                                                                                                                                                                                                                                                                                                                               | Pin 5: GND |          |
| Ethernet               | <ul style="list-style-type: none"><li>• 1 x RJ-45 Female, 10/100Base-T</li><li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li><li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li></ul>                                                                                                                    |            |          |
| Switches               |                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |
| Controller ID          | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                                                                                                                                    |            |          |
| Expander ID            | 1 x 8-segment Switch                                                                                                                                                                                                                                                                                                                                                                                                                     |            |          |
| Reset Button           | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                                                                                                                                             |            |          |
| USB                    | 1 x USB Type A (Firmware upgrade only)                                                                                                                                                                                                                                                                                                                                                                                                   |            |          |
| Power                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |
| Consumption            | DC5V: 3.8W; DC48V: 4.75W                                                                                                                                                                                                                                                                                                                                                                                                                 |            |          |
| Environmental          |                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |
| Operating Temperature  | 0 – 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |          |
| Storage Temperature    | –20 – 60°C                                                                                                                                                                                                                                                                                                                                                                                                                               |            |          |
| Humidity               | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                                                                                                                               |            |          |
| Physical Properties    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |
| Housing                | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |          |
| Weight                 | 0.45 kg ( 0.99 lb )                                                                                                                                                                                                                                                                                                                                                                                                                      |            |          |
| Dimensions (L x W x H) | 13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)                                                                                                                                                                                                                                                                                                                                                                                          |            |          |
| Carton Lot             | 5 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |          |
| Included Accessories   | 1x Mounting Kit                                                                                                                                                                                                                                                                                                                                                                                                                          |            |          |

## VK236 6-Port IR/Serial Expansion Box



Front



Rear



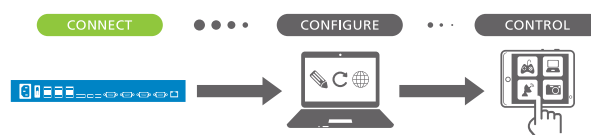
### Features

- Provides 6 IR / RS-232 ports to expand the ATEN Control System
- Up to eight VK236 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK236 with a controller to instantly configure the network settings
- **Supports Power over Ethernet (PoE) or DC power supply**
- Firmware upgradable through USB or Web interface

### Specifications

| Function                    | VK236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Serial                      | <ul style="list-style-type: none"> <li>• 6 x Programmable IR / Uni-directional RS-232 Ports</li> <li>6 x 2-Pole Terminal Block Connectors</li> <li>IR: TTL level (0 to 5 V)                             <ul style="list-style-type: none"> <li>– Carrier Frequency: 10KHz~455KHz;</li> </ul> </li> <li>Serial: Uni-directional RS-232 ( + - 5 V)                             <ul style="list-style-type: none"> <li>– Baud Rate: 300 to 115200 (default: 9600);</li> <li>– Data Bit: 8 (default) or 7;</li> <li>– Stop Bit: 1 (default) or 2;</li> <li>– Parity: None (default), Even or Odd</li> </ul> </li> </ul> |
| Ethernet                    | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:                             <ul style="list-style-type: none"> <li>IP: 192.168.0.60</li> <li>Subnet Mask: 255.255.255.0</li> </ul> </li> </ul>                                                                                                                                                                                                           |
| <b>Switches</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Controller ID               | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Expander ID                 | 1 x 8-segment Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reset Button</b>         | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>USB</b>                  | 1 x USB Type A (Firmware upgrade only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Power</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Consumption                 | DC5V: 1.31W; DC48V: 1.64W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Environmental</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operating Temperature       | 0 – 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage Temperature         | –20 – 60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Housing                     | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Weight                      | 0.45 kg ( 0.99 lb )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dimensions (L x W x H)      | 13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Included Accessories</b> | 6x Terminal Blocks; 1x Mounting Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

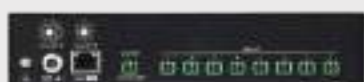
## VK248 8-Channel Relay Expansion Box



Front



Rear



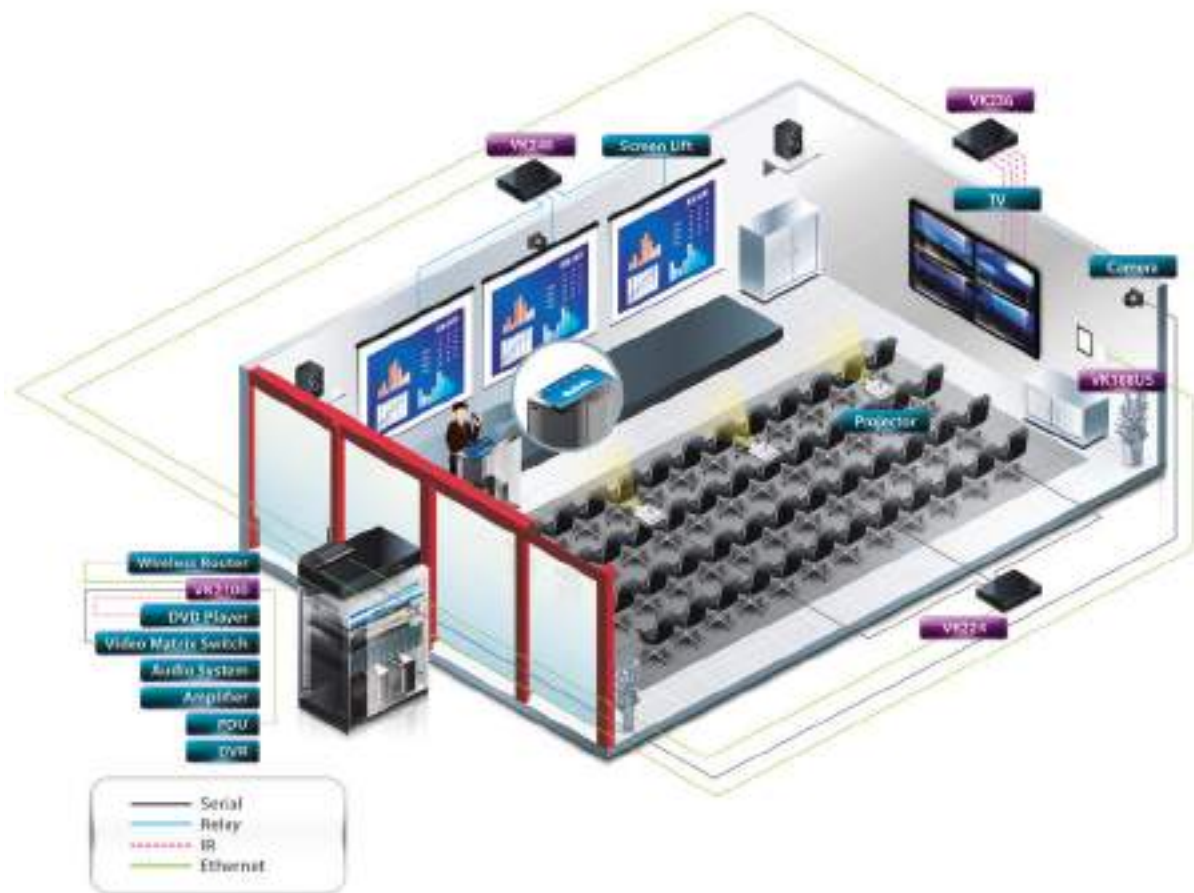
### Features

- Provides 8 relay channels to expand the ATEN Control System
- Up to eight VK248 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK248 with a controller to instantly configure the network settings
- Provides DC power to power an AC relay module or other device
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB or Web interface

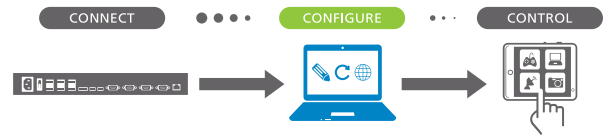
### Specifications

| Function                    | VK248                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>           |                                                                                                                                                                                                                                                                                                                           |
| Relay                       | <ul style="list-style-type: none"> <li>• 8 normally open relays (8 x 2-pole terminal blocks)</li> <li>• Contact Rating: Max 24 VDC, 2A</li> </ul>                                                                                                                                                                         |
| Ethernet                    | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li> </ul> |
| <b>Switches</b>             |                                                                                                                                                                                                                                                                                                                           |
| Controller ID               | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                     |
| Expander ID                 | 1 x 8-segment Switch                                                                                                                                                                                                                                                                                                      |
| <b>Reset Button</b>         | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                              |
| <b>USB</b>                  | 1 x USB Type A (Firmware upgrade only)                                                                                                                                                                                                                                                                                    |
| <b>Power</b>                |                                                                                                                                                                                                                                                                                                                           |
| Consumption                 | DC5V: 2.82W; DC48V: 3.53W                                                                                                                                                                                                                                                                                                 |
| Output                      | 12 VDC, 300 mA                                                                                                                                                                                                                                                                                                            |
| <b>Environmental</b>        |                                                                                                                                                                                                                                                                                                                           |
| Operating Temperature       | 0 – 50°C                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature         | –20 – 60°C                                                                                                                                                                                                                                                                                                                |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                                |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                                                                                                           |
| Housing                     | Metal                                                                                                                                                                                                                                                                                                                     |
| Weight                      | 0.65 kg ( 1.43 lb )                                                                                                                                                                                                                                                                                                       |
| Dimensions (L x W x H)      | 20.00 x 7.58 x 4.20 cm (7.87 x 2.98 x 1.65 in.)                                                                                                                                                                                                                                                                           |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                                                                                                                                                                                     |
| <b>Included Accessories</b> | 9x Terminal Blocks; 1x Mounting Kit                                                                                                                                                                                                                                                                                       |

Expandable Solution > with VK2100 Control Box and Expansion Boxes  
( VK224+VK236+VK248+VK108US )



## Configurator Software VK6000



### Features

- **Simple profile configuration via intuitive GUI**
- Customizable GUI to be used on mobile devices and PC
- Supports ControlAssist that allows remote PC control
- Built-in Database Generator for device driver setup and overall device management
- Built-in ATEN Library comprising 10,000+ device drivers and complete ATEN Pro A/V product drivers
- Scheduling for repeating events
- Two-way communication enables user-defined event monitoring to automatically trigger the next actions
- Status synchronization of managed devices across multiple mobile devices
- Test tool to verify commands in action before uploading the profile to the VK2100 / VK1100 / VK0200 / VK0100 Controller
- Simulator to simulate and review the customized GUI before uploading

### 1 Start Project



### 2 Configure Device



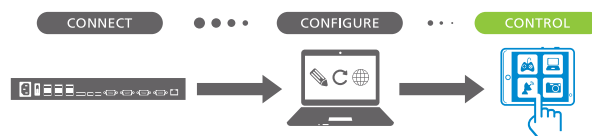
### 3 Create Viewer



### 4 Upload Profile



# ControlAssist



## Features

- Remote PC shutdown\*
- Remote browsing and control of media files
- Remote preview and control of PowerPoint files
- Remote PC volume control
- Remote execution of programs
- Remote opening of files and URLs

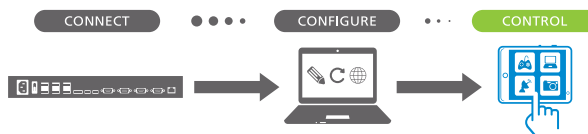
\* Note: Remote PC power on can be done via Wake on LAN function

## PC Control Through ControlAssist





## Mobile App



### ATEN Control System Mobile App



Android



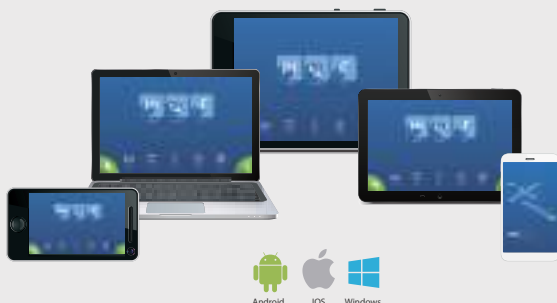
iOS



Windows

### Features

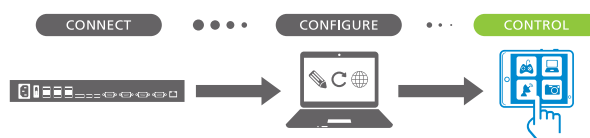
- Allows administrators to centrally control multiple rooms via different profiles on a single mobile device
- Restricted user access to profiles via password authentication
- Synchronization of system controls amongst multiple mobile devices



## Multi-Room Control > Central Administration



## VK112EU 12-Button Keypad (EU, 2 Gang)



Front



Rear



Side



### Features

- Provides physical connection to the ATEN Control System
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box for future scalability
- Unrestricted modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

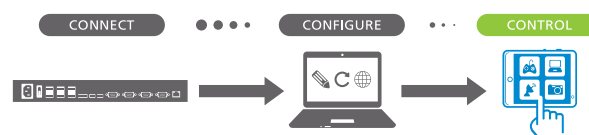
## Specifications

| Function                         | VK112EU                                                                                                                                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>                |                                                                                                                                                                                                                                                                                                                      |
| Ethernet                         | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li> </ul> |
| Keypad Layout                    | 6~12 buttons customizable in 125 keypad layouts                                                                                                                                                                                                                                                                      |
| <b>Switches</b>                  |                                                                                                                                                                                                                                                                                                                      |
| Controller ID                    | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                |
| Keypad ID                        | 1 x 8-segment Switch                                                                                                                                                                                                                                                                                                 |
| <b>Reset Button</b>              | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                         |
| <b>Power</b>                     |                                                                                                                                                                                                                                                                                                                      |
| Consumption                      | DC5V: 1.25W; DC48V: 1.56W                                                                                                                                                                                                                                                                                            |
| <b>Environmental</b>             |                                                                                                                                                                                                                                                                                                                      |
| Operating Temperature            | 0 – 50°C                                                                                                                                                                                                                                                                                                             |
| Storage Temperature              | –20 – 60°C                                                                                                                                                                                                                                                                                                           |
| Humidity                         | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                           |
| <b>Physical Properties</b>       |                                                                                                                                                                                                                                                                                                                      |
| Housing                          | Plastic                                                                                                                                                                                                                                                                                                              |
| Weight                           | 0.14 kg (0.31lb)                                                                                                                                                                                                                                                                                                     |
| Dimensions (L x W x H)           | 8.32 x 14.76 x 3.87 cm (3.28 x 5.81 x 1.52 in.)                                                                                                                                                                                                                                                                      |
| Faceplate Dimensions (L x W x H) | 8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)                                                                                                                                                                                                                                                                      |
| <b>Carton Lot</b>                | 5 pcs                                                                                                                                                                                                                                                                                                                |
| <b>Included Accessories</b>      | 1x Button Pack; 1x Terminal Block; 1x Faceplate                                                                                                                                                                                                                                                                      |

## Optional Accessories

| Description           | Part No. / Spec. | Page No. |
|-----------------------|------------------|----------|
| HDBaseT Cat 6 Cable   | 2L-2910          | 12-1     |
| Low Skew Cat 5e Cable | 2L-2801          | 12-3     |

## VK108US 8-Button Keypad (US, 1 Gang)



### Front w / Faceplate



### Features

- Provides physical connection to the ATEN Control System
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box for future scalability
- Unrestricted modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

## Specifications

| Function                         | VK108US                                                                                                                                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interfaces</b>                |                                                                                                                                                                                                                                                                                                                      |
| Ethernet                         | <ul style="list-style-type: none"> <li>• 1 x RJ-45 Female, 10/100Base-T</li> <li>• Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS</li> <li>• DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds:<br/>IP: 192.168.0.60<br/>Subnet Mask: 255.255.255.0</li> </ul> |
| Keypad Layout                    | 4~8 buttons customizable in 14 keypad layouts                                                                                                                                                                                                                                                                        |
| <b>Switches</b>                  |                                                                                                                                                                                                                                                                                                                      |
| Controller ID                    | 1 x 16-segment Switch                                                                                                                                                                                                                                                                                                |
| Keypad ID                        | 1 x 8-segment Switch                                                                                                                                                                                                                                                                                                 |
| <b>Reset Button</b>              | 1 x Semi-recessed Pushbutton                                                                                                                                                                                                                                                                                         |
| <b>Power</b>                     |                                                                                                                                                                                                                                                                                                                      |
| Consumption                      | DC5V: 1.25W; DC48V: 1.58W                                                                                                                                                                                                                                                                                            |
| <b>Environmental</b>             |                                                                                                                                                                                                                                                                                                                      |
| Operating Temperature            | 0 – 50°C                                                                                                                                                                                                                                                                                                             |
| Storage Temperature              | -20 – 60°C                                                                                                                                                                                                                                                                                                           |
| Humidity                         | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                           |
| <b>Physical Properties</b>       |                                                                                                                                                                                                                                                                                                                      |
| Housing                          | Plastic                                                                                                                                                                                                                                                                                                              |
| Weight                           | 0.13 kg (0.29 lb)                                                                                                                                                                                                                                                                                                    |
| Dimensions (L x W x H)           | 11.63 x 7.06 x 3.89 cm (4.58 x 2.78 x 1.53 in.)                                                                                                                                                                                                                                                                      |
| Faceplate Dimensions (L x W x H) | 11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)                                                                                                                                                                                                                                                                      |
| <b>Carton Lot</b>                | 5 pcs                                                                                                                                                                                                                                                                                                                |
| <b>Included Accessories</b>      | 1x Button Pack; 1x Terminal Block; 1x Faceplate                                                                                                                                                                                                                                                                      |

## Optional Accessories

| Description           | Part No. / Spec. | Page No. |
|-----------------------|------------------|----------|
| HDBaseT Cat 6 Cable   | 2L-2910          | 12-1     |
| Low Skew Cat 5e Cable | 2L-2801          | 12-3     |



# Management Software

## Global AV Management Platform

2

Management Platform

The Global AV Management Platform is a server-based software for centralized management, monitoring and control of Ethernet-based, ATEN pro AV devices located remotely in different buildings, across a campus, or even another city. In addition to reducing the workload for IT administrators by synchronizing device statuses for centralized control and troubleshooting, the ATEN Global Management Platform provides an intuitive interface via which routine AV tasks can be scheduled and executed, making it the perfect solution to manage mass AV device deployments.

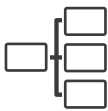


## Why ATEN Global AV Management Platform?



### Monitor

- Detect hardware connection status in real-time
- Track hardware conditions and respond to alert situations



### Manage

- Oversee management of multiple devices across different locations
- Organize devices into user-defined location trees for easy navigation and management



### Control

- Perform common AV, scheduling and device execution tasks as well as firmware upgrades remotely
- Batch control allows multiple devices to be grouped and controlled simultaneously

### • Management Anywhere

As a server-based software, the Global AV Management Platform is accessible from anywhere on the network with the support of popular web browsers, allowing users to remotely manage, monitor, and control devices from anywhere, at anytime.



### • Effortless Scalability

From one room to multiple rooms, at a single location to locations across a city, devices can be added and connected to the platform effortlessly, simplifying the management complexity of advanced applications.

### • Intuitive Navigation and Control

Devices are mapped out on location trees and grouped for easy navigation and management at the device or overview level for a specific room or among buildings, empowering the user with the ability to manage and execute actions across grouped devices simultaneously.

### • Preventive Maintenance

Monitor and track hardware conditions proactively through the Alert, Notification and System Log functions for immediate troubleshooting as well as perform maintenance planning to avoid potential device failures.

### • Enhanced Security

User rights can be managed so that access to sensitive data and related operations are configured to dedicated settings and kept in-house, providing the ability to tailor the platform to meet organizational security needs.

# ATEN Global AV Management Platform

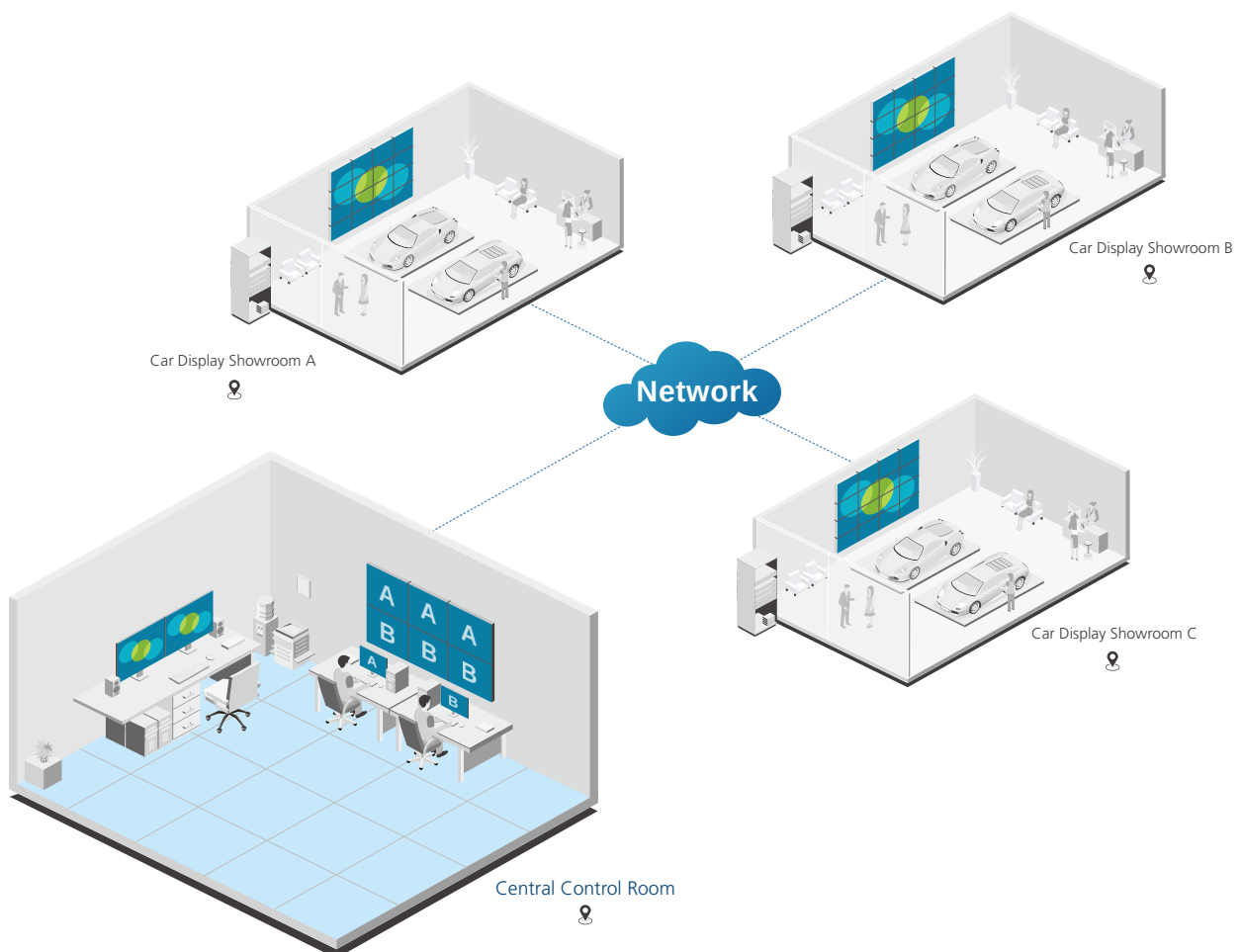


## Features

- Centralized management, monitoring, and control for applications where ATEN Ethernet-based pro AV solutions are applied
- Intuitive user interface designed for large-scale AV applications with multiple locations
- Automatic synchronization of device conditions – shows device connection statuses, hardware conditions (fan and temperature), and firmware versions for remote troubleshooting and maintenance
- 5-level location settings including room view and floor view
- Grouping function allows for batch control and firmware upgrades
- Access rights management
- Notifications and system logs for abnormal events
- Supports mainstream web browsers
- Task scheduling

2

Management Platform





# Presentation Switch Series

Efficient meetings demand efficient systems. What today's workforce expects is to just walk in, connect, and get straight down to business.

The ATEN Presentation Switch Series is a range of multi-in-one solutions available in a variety of configurations, mixing and matching video matrix switching, audio capabilities, extension, streaming, and analog-to-digital conversion with unique features in one compact enclosure.

The series is designed to simplify AV integration and reduce system device count and operation complexity in commercial environments of any size, such as meeting rooms, boardrooms, classrooms or other presentation settings. All models can be mounted in a rack or lectern, or installed under a table or desk for easy and trouble-free integration.

3

Presentation Switch Series

## Specifications at a Glance

| Model                        | VP1920                                                                                   | VP2730                                                          |
|------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Max Resolutions              | HDMI/DP: Up to 4K@60Hz (4:2:0);<br>4K@30Hz (4:4:4)<br>VGA/Analog: Up to 1920 x 1200@60Hz | HDMI/DP: Up to 1080p@60Hz<br>VGA/Analog: Up to 1920 x 1200@60Hz |
| HDCP                         | HDCP 1.4                                                                                 | HDCP 1.4                                                        |
| <b>Video Inputs</b>          |                                                                                          |                                                                 |
| HDMI                         | 6                                                                                        | 5                                                               |
| DisplayPort                  | 1                                                                                        | 1                                                               |
| VGA                          | 1                                                                                        | 1                                                               |
| Component                    | 1                                                                                        | N/A                                                             |
| Composite                    | 1                                                                                        | N/A                                                             |
| <b>Video Outputs</b>         |                                                                                          |                                                                 |
| HDMI                         | 2                                                                                        | 2                                                               |
| HDBaseT                      | N/A                                                                                      | 1                                                               |
| <b>Audio Inputs</b>          |                                                                                          |                                                                 |
| Stereo                       | 1                                                                                        | 1                                                               |
| Composite/Component          | 2                                                                                        | N/A                                                             |
| Balance                      | N/A                                                                                      | 1                                                               |
| Microphone                   | N/A                                                                                      | 1                                                               |
| <b>Audio Outputs</b>         |                                                                                          |                                                                 |
| Optical                      | 1                                                                                        | 1                                                               |
| Coaxial                      | 1                                                                                        | 1                                                               |
| Stereo                       | 2                                                                                        | 2                                                               |
| <b>Features</b>              |                                                                                          |                                                                 |
| Keyboard/Mouse PC Control    | •                                                                                        | N/A                                                             |
| Streaming In                 | N/A                                                                                      | •                                                               |
| Streaming Out                | N/A                                                                                      | •                                                               |
| Switching                    | N/A                                                                                      | Ultra Seamless Switching                                        |
| Scaling                      | N/A                                                                                      | •                                                               |
| Preview                      | •                                                                                        | •                                                               |
| Picture in Picture (PIP)     | •                                                                                        | •                                                               |
| Multiview (PbP, Quad view)   | N/A                                                                                      | •                                                               |
| Auto Switching               | •                                                                                        | •                                                               |
| Audio embedding/de-embedding | •                                                                                        | •                                                               |
| Typical Applications         | Presentation Meeting Room<br>Training Room<br>Interactive Learning Classroom             | Conference Room<br>Boardroom<br>Lecture Hall                    |



## VP1000 Core Series

Multi-format core solutions deliver high-quality video and audio switching and conversion. The flagship model is VP1920, which has the following key features:

- **Multi-format AV Switching**

Switching among 6 HDMI and 3 combo inputs (HDMI/VGA, HDMI/DisplayPort, HDMI/Component/Composite) to 2 HDMI outputs and support for Coaxial, Toslink, Stereo audio outputs.

- **USB Control Routing for PCs and Touch Panels**

USB ports integrate PC and touch panel controls with other devices into one system. Independent switching of USB peripheral ports and keyboard/mouse control focus.

- **Selectable Matrix, Mirror and PiP\* Modes**

Three different display modes meet the needs of various events or presentation styles.

- **Source Preview**

Quickly identify and switch to your target content. No more guessing which port connects to which content source.

## VP2000 Collaborative Series

Collaborative presentation solutions facilitate distance-free content sharing with advanced audio functions. The flagship model is VP2730, with the following key features:

- **Bi-directional Distance-free Streaming**

Go live to stream out HD video or stream in content from a remote site via an intuitive web GUI.

- **Ultra Seamless Switch with Scaler**

ATEN Presentation Switches output continuous video content, perform real-time switching, and ensure stable signal transmissions. They are capable of seamlessly switching between input sources.

- **Built-in Audio Mixer**

Supports dynamic and condenser microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio.

- **Multi-view Flexibility**

Display and switch simultaneously up to six sources in PiP (picture in picture), PbP (picture by picture), quad-view modes, and more.

- **Moderator Mode for Meeting Management**

The meeting moderator can control any output display remotely and discretely without interrupting the meeting flow.

# VP2730 7 x 3 Seamless Presentation Matrix Switch with Scaler, Streaming, Audio Mixer, and HDBaseT

PRO

HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE

HDBT™

RS-232  
Control

IR Remote  
Control

EDID

Scaler

Phantom  
Power

Streaming

Source  
Preview

Seamless  
Switch

Auto  
Switching

RGB

## Features

### Seamless Multi-format AV Switching

- Supports multi-format 7 Inputs:
  - 2 combo inputs (HDMI/VGA, HDMI/DisplayPort)
  - 3 HDMI inputs
- 2 HDMI and 1 HDBaseT matrix outputs
- Superior video quality up to 1080p@60Hz (HDMI/DisplayPort)
- Ultra Seamless Switch™ – zero-second switching that provides continuous video streams, real-time switching, and stable signal transmissions
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Flexible aspect ratio conversion

### 1080p Streaming for Distance-free Sharing and Collaboration

- Go Live – meeting moderator can broadcast HD video streams to up to 5 remote locations
- Streaming In – remote locations can stream and share content to the meeting moderator at any distance via the intuitive web GUI
- Streaming Queuing – shares the streamed-in content approved by the meeting moderator one at a time to help manage the meeting flow

### Audio Mixer Integration for Advanced Applications

- Audio Mixer – allows mixing of the microphone inputs to any external analog or digital audio output device
- Embed/De-embed Audio – HDMI/DisplayPort audio signals can be extracted to separate digital/analog audio signals; MicLine audio can be embedded to HDMI audio
- Supports multi-format digital/analog audio outputs, including coaxial, TOSLINK, and RCA

### Advanced Conferencing Management Features for Collaboration

- Multi-view – displays and switches simultaneously in any variation of full-screen, dual-view, tri-view, quad-view, or PIP modes, with up to six sources displayed simultaneously on one screen
- Moderator Mode – enables the meeting moderator control other displays via host display
- Chat Room – facilitates real-time and precise communication among remote participants
- Screen Capture – captures anything on your screen with a click
- Freeze – freezes the screen for discussion or to control the meeting flow

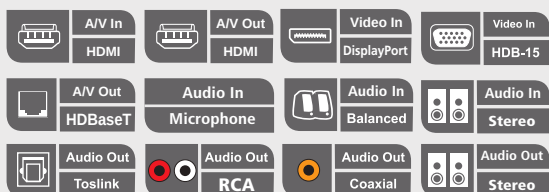
### Streamlined Operation

- Multiple Control Options – flexible control via built-in Web UI, Front Panel, OSD, IR Remote Control, and RS-232
- Auto Switching – automatically detects and switches to a new source as soon as it is connected for time-saving and convenience

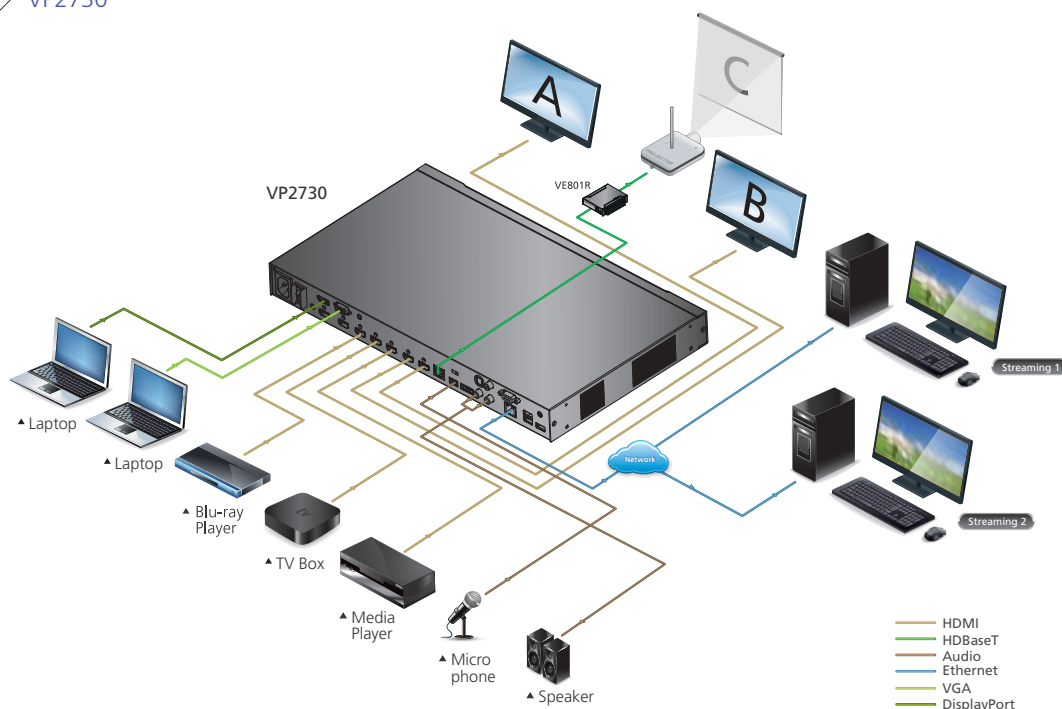
Front



Rear



## Setup > VP2730



## Specifications

| Function                    | VP2730                                                                                                                                                     |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                            |
| Interfaces                  | 5 x HDMI Type A Female (Black)<br>1 x DP Female (Black)<br>1 x HDB-15 Female (Blue)                                                                        |
| <b>Video Output</b>         |                                                                                                                                                            |
| Interfaces                  | 2 x HDMI Type A Female (Black)<br>HDBaseT: 1 x RJ-45 Female (Silver)                                                                                       |
| Max. Distance               | HDMI: Up to 15m<br>HDBaseT: Up to 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat 6)                                                                 |
| <b>Video</b>                |                                                                                                                                                            |
| Compliance                  | HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)                                                                                           |
| Max. Resolution             | HDMI/DP: Up to 1080p @ 60Hz<br>VGA/Analog: Up to 1920 x 1200 @ 60Hz                                                                                        |
| <b>Audio</b>                |                                                                                                                                                            |
| Input                       | Stereo Audio: 1 x Mini Stereo Jack Female (Green)<br>Balance Audio: 1 x Captive Screw Connector, 5-pole<br>Microphone: 1 x Captive Screw Connector, 3-pole |
| Output                      | Optical Audio: 1 x Toslink (Black)<br>Coaxial Audio: 1 x RCA Female (Orange)<br>Stereo Audio: 2 x RCA Female (White/Red)                                   |
| <b>Connectors</b>           |                                                                                                                                                            |
| USB                         | USB 2.0: 2 x USB Type A Female (White)<br>USB 3.0: 1 x USB Type A Female (Blue)                                                                            |
| <b>Control</b>              |                                                                                                                                                            |
| RS-232                      | 1 x DB 9 Female (Black)                                                                                                                                    |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                        |
| Ethernet                    | 1 x RJ-45 Female (Silver)                                                                                                                                  |
| <b>EDID Settings</b>        | EDID Mode: ATEN Default / Display A                                                                                                                        |
| <b>Power</b>                |                                                                                                                                                            |
| Connectors                  | 1 x 3-prong AC Socket                                                                                                                                      |
| Maximum Input Power Rating  | 100-240 VAC; 50-60Hz; 1.0A                                                                                                                                 |
| Consumption                 | AC110V: 28.5W; AC220V: 27.3W                                                                                                                               |
| <b>Environmental</b>        |                                                                                                                                                            |
| Operating Temperature       | 0 - 40°C                                                                                                                                                   |
| Storage Temperature         | -20 - 60°C                                                                                                                                                 |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                 |
| <b>Physical Properties</b>  |                                                                                                                                                            |
| Housing                     | Metal                                                                                                                                                      |
| Weight                      | 3.70 kg (8.15 lb)                                                                                                                                          |
| Dimensions (L x W x H)      | 43.24 x 26.28 x 4.40 cm (17.02 x 10.35 x 1.73 in.)                                                                                                         |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                                       |
| <b>Included Accessories</b> | 1x Power Cord; 1x IR Receiver; 1x IR Remote Control; 2x Terminal Blocks; 4x Foot Pads                                                                      |

## Optional Accessories

| Description                | Part No. / Spec.  | Page No. |
|----------------------------|-------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m)  | 12-5     |
| DisplayPort Cable*         | 2L-7D02DP (1.8 m) | 12-6     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12           | 13-1     |
| IR Remote Control          | 2XRT-0110G        | 13-2     |
| IR Receiver Cable (38 KHz) | 2XRT-0003G        | 13-2     |
| HDBaseT Cat 6 Cable        | 2L-2910           | 12-1     |

\*Cables with different lengths are available; please refer to 12-5 and 12-6.

# VP1920 9 x 2 4K Presentation Matrix Switch **PRO**



3

Presentation Switch Series

Front



Rear



## Features

### Multi-format AV Switching with Simplicity

- Supports multi-format 9 Inputs and 2 HDMI outputs:
  - 3 combo inputs (HDMI/VGA, HDMI/DisplayPort, HDMI/AV/YPbPr)
  - 3 HDMI inputs
  - 2 HDMI matrix outputs
- VGA port supports universal analog input formats (RGBHV/RGBs/ YCbCr/YPbPr)
- Embed/De-embed Audio – HDMI/DisplayPort audio signals can be extracted to digital/analog audio signals; stereo/composite/component audio can be embedded to digital audio signals

### High-definition Video with Optimum Output

- Superior video quality up to 4096 x 2160@60Hz (4:2:0) / 4096 x 2160@30Hz (4:4:4) (HDMI/DP)
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI (3D, Deep Color, 4K); HDCP 1.4 compliant

### Versatile, Streamlined Operation

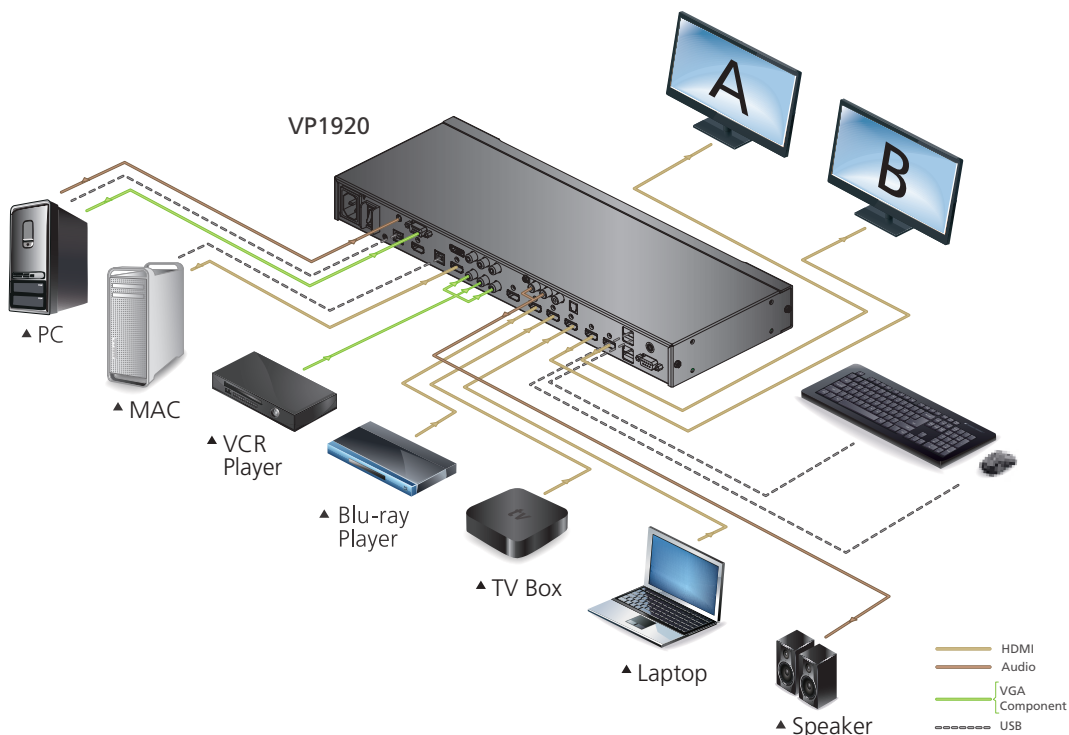
- Multiple control methods via front-panel pushbuttons, RS-232, OSD, and IR remote
- Source preview – quickly identify and switch to the target content
- Selectable display modes (Matrix, Mirror, or PIP) for different presentation demands
- Auto switching – automatically detects and switches to a new source as soon as it is connected for time-saving and convenience
- Supports stand-by mode for power saving and fast waking up

### Extended Flexibility for USB Peripherals

- USB ports enable keyboard/mouse or touch panel control over the connected computers
- Control focus for keyboard/mouse and USB peripherals can be individually switched to a designated computer source



## Setup > VP1920



## Specifications

| Function                    | VP1920                                                                                                                                                                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                                 |
| Interfaces                  | 6 x HDMI Type A Female (Black)<br>1 x DP Female (Black)<br>1 x HDB-15 Female (Blue)<br>1 x Component (3 x RCA Female, Blue/Green/Red)<br>1 x Composite (1 x RCA Female, Yellow) |
| <b>Video Output</b>         |                                                                                                                                                                                 |
| Interfaces                  | 2 x HDMI Type A Female (Black)                                                                                                                                                  |
| Max. Distance               | Up to 15 m                                                                                                                                                                      |
| <b>Video</b>                |                                                                                                                                                                                 |
| Compliance                  | HDMI (3D, Deep Color, 4K);<br>HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)                                                                                  |
| Max. Resolution             | HDMI/DP: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)<br>VGA/Analog: Up to 1920 x 1200 @ 60Hz                                    |
| <b>Audio</b>                |                                                                                                                                                                                 |
| Input                       | Stereo Audio: 1 x Mini Stereo Jack Female (Green)<br>Composite/Component Audio: 2 x RCA Female (Red/White)                                                                      |
| Output                      | Optical Audio: 1 x Toslink (Black)<br>Coaxial Audio: 1 x RCA Female (Orange)<br>Stereo Audio: 2 x RCA Female (Red/White)                                                        |
| <b>Connectors</b>           |                                                                                                                                                                                 |
| Computers                   | 2 x USB Type B Female (White)                                                                                                                                                   |
| Console Ports               | Keyboard/Mouse: 2 x USB Type A Female (White)<br>Device: 2 x USB Type A Female (White)                                                                                          |
| <b>Control</b>              |                                                                                                                                                                                 |
| RS-232                      | 1 x DB 9 Female (Black)                                                                                                                                                         |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                                             |
| <b>EDID Settings</b>        | EDID Mode: Default / Port 1 / Remix                                                                                                                                             |
| <b>Power</b>                |                                                                                                                                                                                 |
| Connectors                  | 1 x 3-prong AC Socket                                                                                                                                                           |
| Maximum Input Power Rating  | 100-240 VAC; 50-60Hz; 1.0A                                                                                                                                                      |
| Consumption                 | AC110V: 7.3W; AC220V: 7.3W                                                                                                                                                      |
| <b>Environmental</b>        |                                                                                                                                                                                 |
| Operating Temperature       | 0 - 40°C                                                                                                                                                                        |
| Storage Temperature         | -20 - 60°C                                                                                                                                                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                      |
| <b>Physical Properties</b>  |                                                                                                                                                                                 |
| Housing                     | Metal                                                                                                                                                                           |
| Weight                      | 2.36 kg (5.20 lb)                                                                                                                                                               |
| Dimensions (L x W x H)      | 43.72 x 16.36 x 4.40 cm (17.21 x 6.44 x 1.73 in.)                                                                                                                               |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                                                            |
| <b>Included Accessories</b> | 1x Power Cord; 1x IR Receiver; 1x IR Remote Control                                                                                                                             |

## Optional Accessories

| Description                | Part No. / Spec.  | Page No. |
|----------------------------|-------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m)  | 12-5     |
| DisplayPort Cable*         | 2L-7D02DP (1.8 m) | 12-6     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12           | 13-1     |
| IR Remote Control          | 2XRT-0109G        | 13-2     |
| IR Receiver Cable (38 KHz) | 2XRT-0003G        | 13-2     |

\*Cables with different lengths are available; please refer to 12-5 and 12-6.



# Modular Matrix Solution Series

- VM1600A / VM3200 - Modular Matrix Switch
- VM7904 - DisplayPort Input Board
- VM7404 - 3G-SDI Input Board
- VM7104 - VGA Input Board

- VM7514 / VM8514 - HDBaseT Input / Output Board
- VM7814 / VM8814 - 4K HDMI Input / Output Board
- VM7804 / VM8804 - HDMI Input / Output Board
- VM7604 / VM8604 - DVI Input / Output Board

The ATEN Modular Matrix Solution Series comprises the VM1600A/VM3200 Modular Matrix Switch in tandem with a range of hot-swappable I/O boards. The solution offers real-time control and advanced access to manage 16/32 video sources and 16/32 displays simultaneously, through modular I/O boards in a single chassis. Empowered by ATEN Seamless Switch™ technology, the VM1600A/VM3200 video matrix switches incorporate a speed-progressive video switching function and a unique scaler that integrates seamlessly with video wall systems. The ATEN Modular Matrix Solution is easily expandable and ideal for large-scale AV applications such as broadcasting stations, traffic and transportation-related control rooms, emergency service centers, and any application that requires customizable, high-speed AV signal routing.

Boasting a sophisticated and intuitive design to deliver the best audio/visual distribution and control, reliability and lowest maintenance costs, the solution also incorporates ATEN's Red Dot Award-winning GUI that can be accessed from anywhere over a network or the internet. Configuring a video wall or digital signage installation has never been easier.



## Specifications at a Glance

| Combination          | Matrix Switch    |                             |                 |                 |             |             |             |                                     |
|----------------------|------------------|-----------------------------|-----------------|-----------------|-------------|-------------|-------------|-------------------------------------|
|                      | VM1600A / VM3200 |                             |                 |                 |             |             |             |                                     |
|                      | Input Board      | VM7514                      | VM7904          | VM7814          | VM7804      | VM7604      | VM7104      | VM7404                              |
|                      | Output Board     | VM8514                      |                 | VM8814          | VM8804      | VM8604      |             |                                     |
| Interface            |                  | HDBaseT (RJ-45)             | DisplayPort     | HDMI            | HDMI        | DVI         | VGA         | 3G-SDI (BNC)                        |
| Max Video Resolution |                  | 4K@60Hz (4:2:0)             | 4K@60Hz (4:2:0) | 4K@60Hz (4:2:0) | 1920 x 1080 | 1920 x 1200 | 1920 x 1200 | 1920 x 1080                         |
| Max Distance         | Input            | 100m                        | 5m              | 5m              | 5m          | 5m          | 1.8m        | SD: 300 m<br>HD: 150 m<br>3G: 100 m |
|                      | Output           | 100m                        | N/A             | 15m             | 15m         | 5m          | N/A         | N/A                                 |
| Audio                |                  | N/A                         | •               | •**             | •**         | •**         | •**         | •**                                 |
| Scaler               |                  | VM8514 + VE805R / VE816R*** | N/A             | VM8814          | VM8804      | VM8604      | N/A         | N/A                                 |
| Video Wall           |                  | VM8514 + VE805R / VE816R**  | N/A             | VM8814          | VM8804      | VM8604      | N/A         | N/A                                 |
| Seamless Switching   |                  | VM8514 + VE805R / VE816R*** | N/A             | VM8814          | VM8804      | VM8604      | N/A         | N/A                                 |
| FrameSync            |                  | VM8514 + VE816R***          | N/A             | VM8814          | N/A         | N/A         | N/A         | N/A                                 |
| Cable Quality Tester |                  | VM8514 + VE816R***          | N/A             | •               | N/A         | N/A         | N/A         | N/A                                 |
| RS-232 Channel       |                  | •                           | N/A             | N/A             | N/A         | N/A         | N/A         | N/A                                 |
| IR Channel           |                  | •                           | N/A             | N/A             | N/A         | N/A         | N/A         | N/A                                 |

Note : \* 4K resolutions are only available when the Scaler is disabled. When the Scaler function is implemented, the highest resolution available is 1080p. The Scaler function is enabled by default.

\*\* HDMI audio signal can be extracted as stereo audio. Stereo audio can be embedded into the HDMI audio output.

\*\*\* For the VM8514, certain functions are only available when used with the appropriate extenders.



- **Modular Convenience**

The removable front panel, modular interior PCBs, hot swappable I/O board, power, and fan modules make repair and replacement easier than ever, without any interruption to services.

- **Modular Design for Easy Maintenance and Reliability**

The removable front panel, modular interior PCBs, hot swappable I/O board, power, and fan modules make repair and replacement easier than ever. In addition, the redundant power design prevents single points of failure from shutting down the entire system and ensures 24/7 operation.

- **Future-proof Expandability**

Minimal cost and hassle-free expandability with a selection of modular I/O boards, including HDBaseT, DisplayPort, HDMI, DVI, 3G-SDI, and VGA boards that enable easy future expansion.

- **4K Seamless Switching**

ATEN's unique Seamless Switch™ technology features close-to-zero second video switching from any input to any output at up to 4K without any black screens.

- **Tear-free Video Walls**

ATEN's FrameSync Technology prevents screen tearing by synchronizing the scaler frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls.

- **Scaling for Optimized Output**

A unique scaler utilizes ATEN FPGA technology to unify various video input signals and render optimized output resolutions on displays with uncompromised precision.

- **Award-winning Web GUI**

Through an intuitive web interface, video sources can be previewed in real-time and video walls can be easily set up. A calendar-based scheduling function allows you to queue and play connection profiles via a calendar view for a set period of time, reducing related human operation costs.

- **HDBaseT™ Technology**

HDBaseT™ is a connectivity standard that combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through a single Cat 6/6a cable. HDBaseT™ is optimized for professional AV installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters.

- **Audio Separation**

The modular matrix switch provides the capability to separate audio signals from their corresponding video signals, including both HDMI-extracted audio and embedded stereo audio. This allows the audio and video signals from one source device to be switched and sent out to different destinations.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.

# VM3200 32 x 32 Modular Matrix Switch



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winner interface design



TAIWAN  
EXCELLENCE  
2018



RS-232/485/422  
Control

EDID

FPGA  
FPGA  
Design

Streaming

Front



Rear



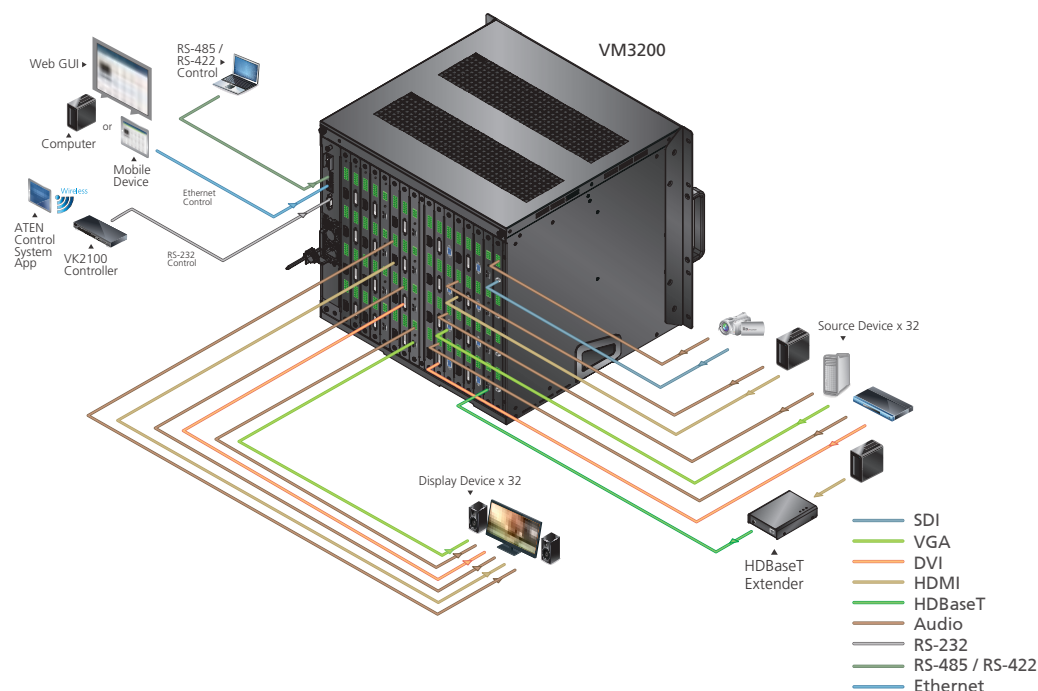
\*The I/O boards need to be purchased separately.

## Features

- 32 x 32 I/O connections via 8 x 8 I/O slots for modular matrix boards
- Supports redundant power module for higher reliability
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232/RS-485/RS-422 and Ethernet connections
- **4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)\*
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions\*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- **Audio-enabled** – HDMI audio can be extracted and stereo audio can be embedded
- **Live Streaming** – supports single source live streaming via web GUI for convenient evaluation of display output
- **Content and Layout Preview** – displays thumbnails of source media in web GUI, simplifying profile configuration
- **Calendar-based scheduling** – calendar-based scheduling
- Hot-swappable design for I/O boards, fan module, and power supplies
- Rack-mountable (9U design)

Note: \*The availability of these features depends on which I/O board is inserted.

Setup > VM3200 + VM7814 / VM8814 + VM7514 / VM8514  
VM7604 / VM8604 + VM7104 + VM7404



## Specifications

| Function                    | VM3200                                                                                                                                                                                                                                 |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Board Input</b>          | 8 x Slots                                                                                                                                                                                                                              |
| <b>Board Output</b>         | 8 x Slots                                                                                                                                                                                                                              |
| <b>Video</b>                |                                                                                                                                                                                                                                        |
| Interfaces                  | Depends on which I/O board is inserted                                                                                                                                                                                                 |
| Max. Data Rate              | 15.2 Gbps (3.8 Gbps per Lane)                                                                                                                                                                                                          |
| <b>Audio</b>                |                                                                                                                                                                                                                                        |
| Input                       | Depends on which Input board is inserted                                                                                                                                                                                               |
| Output                      | Depends on which Output board is inserted                                                                                                                                                                                              |
| <b>Control</b>              |                                                                                                                                                                                                                                        |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Serial Control Pin Configurations:</b><br>Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd<br><b>Baud Rate and Protocol:</b><br>Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No |
| RS-485/RS-422               | Connector: 1 x Captive Screw Connector, 5 Pole                                                                                                                                                                                         |
| Ethernet                    | Connector: 1 x RJ-45 Female                                                                                                                                                                                                            |
| <b>EDID Settings</b>        | EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)                                                                                                                                                                  |
| <b>Power</b>                |                                                                                                                                                                                                                                        |
| Connectors                  | 1 x 3-Prong AC Socket                                                                                                                                                                                                                  |
| Maximum Input Power Rating  | 100-240 VAC; 50-60Hz; 1.0A                                                                                                                                                                                                             |
| Consumption                 | AC110V: 800W; AC220V: 800W<br>*A power module can be purchased for power redundancy.                                                                                                                                                   |
| <b>Environmental</b>        |                                                                                                                                                                                                                                        |
| Operating Temperature       | 0 - 40°C                                                                                                                                                                                                                               |
| Storage Temperature         | -20 - 60°C                                                                                                                                                                                                                             |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                             |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                        |
| Housing                     | Metal                                                                                                                                                                                                                                  |
| Weight                      | 18.20 kg (40.09 lb)                                                                                                                                                                                                                    |
| Dimensions (L x W x H)      | 48.20 x 47.19 x 39.90 cm (18.98 x 18.58 x 15.71 in.)                                                                                                                                                                                   |
| Rack Height (U Spaces)      | 9U                                                                                                                                                                                                                                     |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                                                                                                                   |
| <b>Included Accessories</b> | 1x Power Cord; 1x Terminal Block connector                                                                                                                                                                                             |

### Required I/O Board

| Description                  | Part No. / Spec. | Page No. |
|------------------------------|------------------|----------|
| HDBaseT Input / Output Board | VM7514 / VM8514  | 4-7      |
| 4K DisplayPort Input Board   | VM7904           | 4-9      |
| 4K HDMI Input / Output Board | VM7814 / VM8814  | 4-10     |
| HDMI Input / Output Board    | VM7804 / VM8804  | 4-11     |
| DVI Input / Output Board     | VM7604 / VM8604  | 4-12     |
| 3G-SDI Input Board           | VM7404           | 4-13     |
| VGA Input Board              | VM7104           | 4-14     |

### Rack Mount Kits (Optional)

| Easy Installation Rack Mount Kit | Rack Depth  |
|----------------------------------|-------------|
| 2X-034G (Short)                  | 41 – 72 cm  |
| 2X-035G (Long)                   | 68 – 108 cm |

### Optional Accessories

| Video Matrix Power Module | VM-PWR800      |
|---------------------------|----------------|
| Input voltage             | 100 – 240 VAC  |
| Power Capacity            | Max. Load 800W |
| Operating Temperature     | 0 - 40 °C      |

| Video Matrix Fan Module | VM-FAN556     |
|-------------------------|---------------|
| Airflow                 | 55.2 cfm      |
| Operating Voltage       | 10.2 – 12 VDC |
| Operating Temperature   | -10 – 60 °C   |





reddot award 2015  
winner interface design

## VM1600A 16 x 16 Modular Matrix Switch

RS-232/485/422  
Control

EDID

FPGA  
Design

Front



Rear



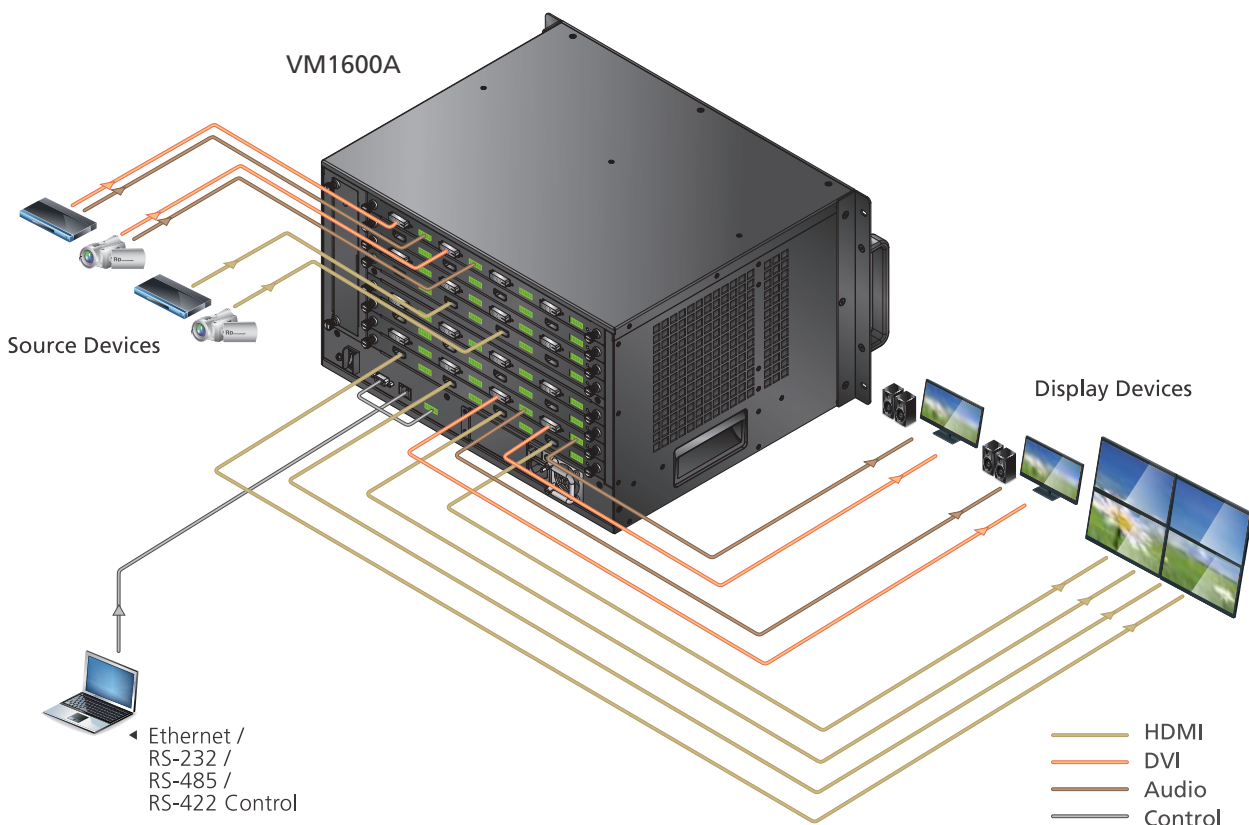
\*The I/O boards need to be purchased separately.

### Features

- 16 x 16 I/O connections via 4 x 4 I/O slots for modular matrix boards
- Supports redundant power module for higher reliability
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232/RS-485/RS-422, and Ethernet connections
- **4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)\*
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions\*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- **Audio-enabled** – HDMI audio can be extracted and stereo audio can be embedded
- Hot-swappable design for easy integration of I/O boards, fan module, and power supplies
- Rack-mountable (6U design)

Note: \*The availability of these features depends on which I/O board is inserted.

### Setup > VM1600A + VM7804 / VM8804 + VM7604 / VM8604



## Specifications

| Function                    | VM1600A                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Board Input</b>          | 4 x Slots                                                                                                                                                                                                                              |
| <b>Board Output</b>         | 4 x Slots                                                                                                                                                                                                                              |
| <b>Video</b>                |                                                                                                                                                                                                                                        |
| Interfaces                  | Depends on which I/O board is inserted                                                                                                                                                                                                 |
| Max. Data Rate              | 15.2 Gbps (3.8 Gbps per lane)                                                                                                                                                                                                          |
| <b>Audio</b>                |                                                                                                                                                                                                                                        |
| Input                       | Depends on which Input board is inserted                                                                                                                                                                                               |
| Output                      | Depends on which Output board is inserted                                                                                                                                                                                              |
| <b>Control</b>              |                                                                                                                                                                                                                                        |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Serial Control Pin Configurations:</b><br>Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd<br><b>Baud Rate and Protocol:</b><br>Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No |
| RS-485/RS-422               | Connector: 1 x Captive Screw Connector, 5 Pole                                                                                                                                                                                         |
| Ethernet                    | Connector: 1 x RJ-45 Female                                                                                                                                                                                                            |
| <b>EDID Settings</b>        | EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)                                                                                                                                                                  |
| <b>Power</b>                |                                                                                                                                                                                                                                        |
| Connectors                  | 1 x 3-Prong AC Socket                                                                                                                                                                                                                  |
| Maximum Input Power Rating  | 100-240 VAC; 50-60Hz; 3/6 A                                                                                                                                                                                                            |
| Consumption                 | AC110V: 460W; AC220V: 460W<br>*A power module can be purchased for power redundancy.                                                                                                                                                   |
| <b>Fan</b>                  |                                                                                                                                                                                                                                        |
|                             | Airflow: 55.2 cfm<br>Operating Voltage: 10.2 - 12VDC<br>Operating Temp: -10 - 60°C                                                                                                                                                     |
| <b>Environmental</b>        |                                                                                                                                                                                                                                        |
| Operating Temperature       | 0 - 40°C                                                                                                                                                                                                                               |
| Storage Temperature         | -20 - 60°C                                                                                                                                                                                                                             |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                             |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                        |
| Housing                     | Metal                                                                                                                                                                                                                                  |
| Weight                      | 15.11 kg ( 33.28 lb )                                                                                                                                                                                                                  |
| Dimensions (L x W x H)      | 48.20 x 46.66 x 26.59 cm (18.98 x 18.37 x 10.47 in.)                                                                                                                                                                                   |
| Rack Height (U Spaces)      | 6U                                                                                                                                                                                                                                     |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                                                                                                                   |
| <b>Included Accessories</b> | 1x Power Cord; 1x Terminal Block connector                                                                                                                                                                                             |

## Required I/O Board

| Description                  | Part No. / Spec. | Page No. |
|------------------------------|------------------|----------|
| HDBaseT Input / Output Board | VM7514 / VM8514  | 4-7      |
| 4K DisplayPort Input Board   | VM7904           | 4-9      |
| 4K HDMI Input / Output Board | VM7814 / VM8814  | 4-10     |
| HDMI Input / Output Board    | VM7804 / VM8804  | 4-11     |
| DVI Input / Output Board     | VM7604 / VM8604  | 4-12     |
| 3G-SDI Input Board           | VM7404           | 4-13     |
| VGA Input Board              | VM7104           | 4-14     |

## Rack Mount Kits (Optional)

| Easy Installation Rack Mount Kit | Rack Depth  |
|----------------------------------|-------------|
| 2X-026G (Short)                  | 42 – 70 cm  |
| 2X-027G (Long)                   | 68 – 105 cm |

## Optional Accessories

| VM1600A Power Module  | VM-PWR460      |
|-----------------------|----------------|
| Input voltage         | 100 – 240 VAC  |
| Power Capacity        | Max. Load 460W |
| Operating Temperature | 0 - 40 °C      |

| VM1600A Fan Module    | VM-FAN554     |
|-----------------------|---------------|
| Airflow               | 55.2 cfm      |
| Operating Voltage     | 10.2 – 12 VDC |
| Operating Temperature | -10 – 60 °C   |



## VM7514 4-Port HDBaseT Input Board

## VM8514 4-Port HDBaseT Output Board



VM7514



VM8514



### Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- **HDBaseT Connectivity** – extends 4 HDBaseT connections up to 100m via single Cat 6/6a / ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmissions using HDBaseT technology
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8514)\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8514)\*
- **Cable Quality Tester** – examines the HDMI cable quality (VM8514)\*
- **Bi-directional RS-232 channel** – transmits signals over Cat 6/6a cable to control a display or other devices
- **Bi-directional IR channel** – full range IR transmission (30~56 KHz) one direction at a time

Note: \*For the VM8514, the Seamless Switch™ and video wall functions are only available when used with the VE805R and VE816R, and the Cable Quality Tester is only available when used with the VE816R.

### VM7514 Compatible Table

| Compatible Transmitter | Max. Distance     | IR Channel | RS-232 Channel | 4K  |
|------------------------|-------------------|------------|----------------|-----|
| VE2812T                | 100m <sup>a</sup> | •          | •              | •   |
| VE1812T                | 100m <sup>a</sup> | •          | •              | •   |
| VE801T                 | 70m <sup>b</sup>  | N/A        | N/A            | •   |
| VE802T                 | 70m <sup>b</sup>  | •          | •              | •   |
| VE811T                 | 100m <sup>a</sup> | N/A        | N/A            | •   |
| VE812T                 | 100m <sup>a</sup> | N/A        | N/A            | •   |
| VE814AT                | 100m <sup>a</sup> | •          | •              | •   |
| VE601T (DVI)           | 70m <sup>b</sup>  | N/A        | N/A            | N/A |
| VE901T (DisplayPort)   | 70m <sup>c</sup>  | N/A        | N/A            | •   |

### VM8514 Compatible Table

| Compatible Receiver  | Max. Distance     | IR Channel | RS-232 Channel | 4K  | Seamless Switch™ | Video Wall | FrameSync |
|----------------------|-------------------|------------|----------------|-----|------------------|------------|-----------|
| VE1812R              | 100m <sup>a</sup> | •          | •              | •   | N/A              | N/A        | N/A       |
| VE801R               | 70m <sup>b</sup>  | N/A        | N/A            | •   | N/A              | N/A        | N/A       |
| VE802R               | 70m <sup>b</sup>  | •          | •              | •   | N/A              | N/A        | N/A       |
| VE811R               | 100m <sup>a</sup> | N/A        | N/A            | •   | N/A              | N/A        | N/A       |
| VE805R (with Scaler) | 70m <sup>d</sup>  | •          | •              | N/A | •                | •          | N/A       |
| VE812R               | 100m <sup>a</sup> | N/A        | N/A            | •   | N/A              | N/A        | N/A       |
| VE814AR              | 100m <sup>a</sup> | •          | •              | •   | N/A              | N/A        | N/A       |
| VE816R (with Scaler) | 100m <sup>a</sup> | •          | •              | •   | •                | •          | •         |
| VE601R (DVI)         | 70m <sup>c</sup>  | N/A        | N/A            | N/A | N/A              | N/A        | N/A       |
| VE901R (DisplayPort) | 70m <sup>b</sup>  | N/A        | N/A            | •   | N/A              | N/A        | N/A       |

a. Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)  
b. Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)  
c. Up to 1920x1200@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)  
d. Up to 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)

## Specifications

| Function                    | VM7514 / VM8514                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                    |
| Interfaces                  | VM7514: 4 x RJ-45 Female (Silver)                                                                                  |
| Impedance                   | 100 $\Omega$                                                                                                       |
| <b>Video Output</b>         |                                                                                                                    |
| Interfaces                  | VM8514: 4 x RJ-45 Female (Silver)                                                                                  |
| Impedance                   | 100 $\Omega$                                                                                                       |
| <b>Video</b>                |                                                                                                                    |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps per lane)                                                                                      |
| Max. Pixel Clock            | 340 MHz                                                                                                            |
| Compliance                  | VM7514: HDBaseT, HDCP 1.4 compatible<br>VM8514: HDBaseT, HDCP 2.2 compatible<br>Consumer Electronics Control (CEC) |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                        |
| Max. Distance               | 100 m (Cat 6a)*                                                                                                    |
| <b>Control Channel</b>      |                                                                                                                    |
| RS-232                      | 4 x Captive Screw Connectors, 3 pole                                                                               |
| IR                          | 4 x Mini Stereo Jack Female (Black)                                                                                |
| <b>Power</b>                |                                                                                                                    |
| Consumption                 | VM7514: 24.5W; VM8514: 12.2W                                                                                       |
| <b>Environmental</b>        |                                                                                                                    |
| Operating Temperature       | 0 - 40°C                                                                                                           |
| Storage Temperature         | -20 - 60°C                                                                                                         |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                         |
| <b>Physical Properties</b>  |                                                                                                                    |
| Housing                     | Metal                                                                                                              |
| Weight                      | VM7514: 0.64 kg (1.41 lb); VM8514: 0.97 kg (2.14 lb)                                                               |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)                                                                  |
| <b>Carton Lot</b>           | 2 pcs                                                                                                              |
| <b>Included Accessories</b> | 4x Terminal Block Connectors; 1x IR Transmitter; 1x IR Receiver                                                    |

Note: \*We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

## Optional Accessories

| Description         | Part No. / Spec.                                                                             | Page No.                                                               |
|---------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| HDBaseT Cat 6 Cable | 2L-2910                                                                                      | 12-1                                                                   |
| HDBaseT Receiver    | VE1812R, VE801R,<br>VE802R, VE805R,<br>VE811R, VE812R,<br>VE814AR, VE816R,<br>VE601R, VE901R | 9-20, 9-22,<br>9-22, 9-14,<br>9-19, 9-21,<br>9-17, 9-13,<br>9-24, 9-23 |
| HDBaseT Transmitter | VE2812T, VE1812T,<br>VE801T, VE802T,<br>VE811T, VE812T,<br>VE814AT, VE601T,<br>VE901T        | 9-15, 9-20,<br>9-22, 9-22,<br>9-19, 9-21,<br>9-17, 9-24,<br>9-23       |

## VM7904 4-Port 4K DisplayPort Input Board



### Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Connects up to 4 DisplayPort inputs to up to 16 (VM1600A) or 32 (VM3200) displays
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
- Audio-enabled – stereo audio can be routed independently or embedded for HDMI output
- **EDID Expert** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- Support DP1.1 with data rate up to 10.8 Gbps (2.7 Gbps per lane)
- HDCP 1.4/2.2 compatible
- Hot-swappable design for easy integration and maintenance



### Specifications

| Function                    | VM7904                                                                                          |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                 |
| Interfaces                  | 4 x DisplayPort Female (Black)                                                                  |
| Impedance                   | 100 $\Omega$                                                                                    |
| Max. Distance               | Up to 3m                                                                                        |
| <b>Video</b>                |                                                                                                 |
| Max. Data Rate              | 10.8 Gbps (2.7 Gbps Per Lane)                                                                   |
| Max. Pixel Clock            | 340 MHz                                                                                         |
| Compliance                  | HDCP Compatible                                                                                 |
| Max. Resolution             | 4096x2160@30Hz (4:4:4); 3840x2160@30Hz (4:4:4)                                                  |
| <b>Audio</b>                |                                                                                                 |
| Input                       | 4 x Captive Screw Connector, 5 Pole (Green)<br>*Audio signal type: stereo, balanced/unbalanced. |
| <b>Power</b>                |                                                                                                 |
| Consumption                 | 7.18W                                                                                           |
| <b>Environmental</b>        |                                                                                                 |
| Operating Temperature       | 0 - 40°C                                                                                        |
| Storage Temperature         | -20 - 60°C                                                                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                      |
| <b>Physical Properties</b>  |                                                                                                 |
| Housing                     | Metal                                                                                           |
| Weight                      | 0.55 kg (1.21 lb )                                                                              |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)                                               |
| <b>Carton Lot</b>           | 2 pcs                                                                                           |
| <b>Included Accessories</b> | 4x Terminal Blocks                                                                              |

### Optional Accessories

| Description        | Part No. / Spec. | Page No. |
|--------------------|------------------|----------|
| DisplayPort Cable* | 2L-7D02DP        | 12-6     |

\*Cables with different lengths are available; please refer to 12-6.

# **VM7814** 4-Port 4K HDMI Input Board **VM8814** 4-Port 4K HDMI Output Board with Scaler



(VM7814)



(VM8814)



(VM8814)



(VM8814)



(VM8814)



(VM8814)



(VM8814)

VM7814



VM8814



## Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080); 4K2K@60 (4:2:0)
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded
- **Scaler** – features a 4K video scaling function to convert input resolutions to the optimum display resolutions (VM8814)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8814)\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8814)\*
- HDMI (3D, Deep Color); HDCP 2.2 compatible
- **Cable Quality Tester** – examines the HDMI cable quality
- Consumer Electronics Control (CEC) support
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8814)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

## Specifications

| Function                    | VM7814 / VM8814                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                      |
| Interfaces                  | VM7814: 4 x HDMI Type A Female (Black)                                               |
| Impedance                   | 100 Ω                                                                                |
| Max. Distance               | Up to 5 m                                                                            |
| <b>Video Output</b>         |                                                                                      |
| Interfaces                  | VM8814: 4 x HDMI Type A Female (Black)                                               |
| Impedance                   | 100 Ω                                                                                |
| Max. Distance               | Up to 15 m                                                                           |
| <b>Video</b>                |                                                                                      |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                        |
| Max. Pixel Clock            | 340 MHz                                                                              |
| Compliance                  | HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible<br>Consumer Electronics Control (CEC) |
| Max. Resolution             | 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)   |
| <b>Audio</b>                |                                                                                      |
| Input                       | 4 x Captive Screw Connector, 5 Pole                                                  |
| Output                      | *Audio signal type: stereo, balanced/unbalanced.                                     |
| <b>Power</b>                |                                                                                      |
| Consumption                 | VM7814: 4.45W; VM8814: 20W                                                           |
| <b>Environmental</b>        |                                                                                      |
| Operating Temperature       | 0 - 40°C                                                                             |
| Storage Temperature         | -20 - 60°C                                                                           |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                           |
| <b>Physical Properties</b>  |                                                                                      |
| Housing                     | Metal                                                                                |
| Weight                      | VM7814: 0.56 kg (1.23 lb); VM8814: 0.65 kg (1.43 lb)                                 |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)                                    |
| <b>Carton Lot</b>           | 2 pcs                                                                                |
| <b>Included Accessories</b> | 4x Terminal Blocks; 4x HDMI LockPro                                                  |

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

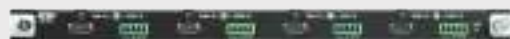
\*Cables with different lengths are available; please refer to 12-5.

# VM7804 4-Port HDMI Input Board

# VM8804 4-Port HDMI Output Board with Scaler



## VM7804



## VM8804



## Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080)
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8804)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions (VM8804)\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8804)\*
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

## Specifications

| Function                    | VM7804 / VM8804                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                  |
| Interfaces                  | VM7804: 4 x HDMI Type A Female (Black)                                           |
| Impedance                   | 100 Ω                                                                            |
| Max. Distance               | Up to 5 m                                                                        |
| <b>Video Output</b>         |                                                                                  |
| Interfaces                  | VM8804: 4 x HDMI Type A Female (Black)                                           |
| Impedance                   | 100 Ω                                                                            |
| Max. Distance               | Up to 15 m                                                                       |
| <b>Video</b>                |                                                                                  |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                   |
| Max. Pixel Clock            | 225 MHz                                                                          |
| Compliance                  | HDMI (3D, Deep Color); HDCP 1.4 Compatible<br>Consumer Electronics Control (CEC) |
| Max. Resolution             | Up to 1920 x 1080                                                                |
| <b>Audio</b>                |                                                                                  |
| Input                       | 4 x Captive Screw Connector, 5 Pole                                              |
| Output                      | *Audio signal type: stereo, balanced/unbalanced.                                 |
| <b>Power</b>                |                                                                                  |
| Consumption                 | VM7804: 7W; VM8804: 23.13W                                                       |
| <b>Environmental</b>        |                                                                                  |
| Operating Temperature       | 0 - 40°C                                                                         |
| Storage Temperature         | -20 - 60°C                                                                       |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                       |
| <b>Physical Properties</b>  |                                                                                  |
| Housing                     | Metal                                                                            |
| Weight                      | 0.58 kg (1.28 lb)                                                                |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)                                |
| <b>Carton Lot</b>           | 2 pcs                                                                            |
| <b>Included Accessories</b> | 4x Terminal Blocks                                                               |

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

## VM7604 4-Port DVI Input Board

## VM8604 4-Port DVI Output Board with Scaler



VM7604



VM8604



### Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8604)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8604)
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8604)
- HDCP 1.4 compatible
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display
- Audio-enabled – HDMI audio (VM7804/VM7814) can be extracted to VM8604; VM7604's stereo audio can be embedded to HDMI audio (VM8804/VM8814)

### Specifications

| Function                    | VM7604 / VM8604                                   |
|-----------------------------|---------------------------------------------------|
| <b>Video Input</b>          |                                                   |
| Interfaces                  | VM7604: 4 x DVI-D Female (White)                  |
| Impedance                   | 100 Ω                                             |
| <b>Video Output</b>         |                                                   |
| Interfaces                  | VM8604: 4 x DVI-D Female (White)                  |
| Impedance                   | 100 Ω                                             |
| <b>Video</b>                |                                                   |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                    |
| Max. Pixel Clock            | 225 MHz                                           |
| Compliance                  | HDCP 1.4 Compatible                               |
| Max. Resolution             | Up to 1920 x 1200                                 |
| Max. Distance               | 5 m                                               |
| <b>Audio</b>                |                                                   |
| Input                       | 4 x Captive Screw Connector, 5 Pole               |
| Output                      | *Audio signal type: stereo, balanced/unbalanced.  |
| <b>Power</b>                |                                                   |
| Consumption                 | VM7604: 10.62W; VM8604: 20.10W                    |
| <b>Environmental</b>        |                                                   |
| Operating Temperature       | 0 - 40°C                                          |
| Storage Temperature         | -20 - 60°C                                        |
| Humidity                    | 0 - 80% RH, Non-Condensing                        |
| <b>Physical Properties</b>  |                                                   |
| Housing                     | Metal                                             |
| Weight                      | 0.55 kg ( 1.21 lb )                               |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.) |
| <b>Carton Lot</b>           | 2 pcs                                             |
| <b>Included Accessories</b> | 4x Terminal Block Connectors                      |

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

### Optional Accessories

| Description  | Part No. / Spec. | Page No. |
|--------------|------------------|----------|
| DVI-D Cable* | 2L-7D03DD (3 m)  | 12-6     |

\*Cables with different lengths are available; please refer to 12-6.



## VM7404 4-Port 3G-SDI Input Board



### Features

- Connects up to 4 SDI inputs
- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Support SD-SDI, HD-SDI and 3G-SDI formats
- Audio-enabled – stereo audio can be embedded to HDMI audio (VM8804/VM8814)

Note: When used with output boards with scaler, Seamless Switch™, scaler and video wall functions can be activated.

### Specifications

| Function                    | VM7404                                                                                                                                                          |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                 |
| Interfaces                  | 4 x BNC Female                                                                                                                                                  |
| Impedance                   | 75 $\Omega$                                                                                                                                                     |
| <b>Video</b>                |                                                                                                                                                                 |
| Supported Resolutions       | PAL/50 PAL and NTSC/59.94<br>720p 25, 29.97, 30, 50, 59.94, 60<br>1080i 50, 59.94, 60<br>1080PsF 25, 29.97, 30<br>1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 |
| Max. Data Rate              | 2.97 Gpbs                                                                                                                                                       |
| Max. Distance               | 100m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)                                                                                                                     |
| <b>SDI Formats</b>          | 3G-SDI, SMPTE-259, 292, 424, 425 Level A & B-DL                                                                                                                 |
| <b>Audio Inputs</b>         |                                                                                                                                                                 |
| Interfaces                  | 4 x Captive Screw Connectors, 5 pole<br>* Audio signal type: stereo, balanced/unbalanced.                                                                       |
| <b>Power</b>                |                                                                                                                                                                 |
| Consumption                 | 16.0 W                                                                                                                                                          |
| <b>Environmental</b>        |                                                                                                                                                                 |
| Operating Temperature       | 0 - 40°C                                                                                                                                                        |
| Storage Temperature         | -20 - 60°C                                                                                                                                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                      |
| <b>Physical Properties</b>  |                                                                                                                                                                 |
| Weight                      | 0.60 kg (1.32 lb)                                                                                                                                               |
| Housing                     | Metal                                                                                                                                                           |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)                                                                                                               |
| <b>Carton Lot</b>           | 2 pcs                                                                                                                                                           |
| <b>Included Accessories</b> | 4x Terminal Block Connectors                                                                                                                                    |

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

## VM7104 4-Port VGA Input Board



### Features

- Connects up to 4 VGA or Component inputs
- Compatible with the VM1600A / VM3200 ; mix and match with modular I/O boards of any type for optimum flexibility
- Supports RGBHV / RGBS / YPbPr / YCbCr input signals
- Audio-enabled – stereo audio can be embedded to HDMI audio (VM8804/VM8814)

### Specifications

| Function                    | VM7104                                                                                    |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                           |
| Interfaces                  | 4 x HDB-15 Female (Blue)                                                                  |
| Impedance                   | 75 $\Omega$                                                                               |
| Max. Bandwidth              | 300 MHz                                                                                   |
| Max. Resolution             | Up to 1920 x 1200                                                                         |
| Max. Distance               | 1.8 m                                                                                     |
| <b>Audio Inputs</b>         |                                                                                           |
| Interfaces                  | 4 x Captive Screw Connectors, 5 pole<br>* Audio signal type: stereo, balanced/unbalanced. |
| <b>Power</b>                |                                                                                           |
| Consumption                 | 7.1 W                                                                                     |
| <b>Environmental</b>        |                                                                                           |
| Operating Temperature       | 0 - 40°C                                                                                  |
| Storage Temperature         | -20 - 60°C                                                                                |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                |
| <b>Physical Properties</b>  |                                                                                           |
| Housing                     | Metal                                                                                     |
| Weight                      | 0.56 kg ( 1.23 lb )                                                                       |
| Dimensions (L x W x H)      | 35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)                                         |
| <b>Carton Lot</b>           | 2 pcs                                                                                     |
| <b>Included Accessories</b> | 4x Terminal Block Connectors                                                              |

Note: \*Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);  
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

# Media Distribution Solution Series

ATEN's Media Distribution Solutions (MDS) deliver up to 4K UHD video content over HDBaseT or standard Cat 5e/6 cables to multiple displays from a single input source. There are three solutions available: HDBaseT, HDMI Standard, and VGA Standard.

Flexible and scalable, these solutions give you the freedom to set up any kind of high-quality video display customized for various applications from retail media to public information systems.



5

Media Distribution Solution Series

## Specifications at a Glance

| Solution                   |          | HDBaseT*          |         |        | HDMI Standard     |            |
|----------------------------|----------|-------------------|---------|--------|-------------------|------------|
| Combination                | Splitter | VS1814T / VS1818T |         |        | VS1804T / VS1808T |            |
|                            | Repeater |                   |         |        |                   | VB802**    |
|                            | Receiver | VE811R            | VE812R  | VE801R | VE800AR           | VE800AR    |
| AV Output (Splitter)       |          | 4 / 8             |         |        | 4 / 8             |            |
| Max. Resolution / Distance |          | 4K@100m           | 4K@100m | 4K@40m | 1080p@40m         | 1080p@300m |
| Audio                      |          | • (HDMI)          |         |        | • (HDMI)          |            |
| Picture Adjustment         |          | Auto              |         |        | EQ Switch         |            |

| Solution                   |          | VGA Standard      |                 |                  |
|----------------------------|----------|-------------------|-----------------|------------------|
| Combination                | Splitter | VS1204T / VS1208T |                 |                  |
|                            | Receiver | VE172R            | VE170R          | VE170RQ          |
| AV Output (Splitter)       |          | 4 / 8             |                 |                  |
| Max. Resolution / Distance |          | 1280 x 1024 @150m | 1024 x 768@300m | 1280 x 1024@300m |
| Audio                      |          | • (Mono)          |                 |                  |
| Picture Adjustment         |          | Knob              |                 |                  |

\*Ensure high quality maximum distance video transmission with ATEN HDBaseT Cat6 Cable, 2L-2910.

\*\* Cascade VB802 up to five levels to achieve 1080p@300m performance.



- **Single Source to Multiple Displays**

These devices take the input from a single AV source and send it to multiple destinations, so that several target devices can reproduce the same video content simultaneously. You can cascade these devices to three levels to achieve even greater media coverage with your installation.

- **Superior Video Quality**

Outstanding video output is achieved through the incorporation of several features – including picture adjustment, EDID mode selection, and ATEN's patented Deskew Technology that automatically corrects display errors that can occur when video is transmitted over long distances. The result is clear, sharp, and optimized video in real-time.

- **HDBaseT™ Technology**

HDBaseT™ support allows for a more economical way to send high-quality HDMI content over a Cat5e/6 cable to multiple displays over long distances from a single input source.

- **Convenient Local Management**

Convenient monitoring of the video being sent to each display is achieved through support for local AV output. If a problem occurs, administrators can take steps to remedy the situation in a timely manner.

- **Control System Integration**

The built-in RS-232 serial port allows you to effortlessly integrate your own control system and customize the control process according to your needs. Serial RS-232 support also gives you the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, and kiosk touch screens – as part of the installation.

Note: 1.The features highlighted above are not available on all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.

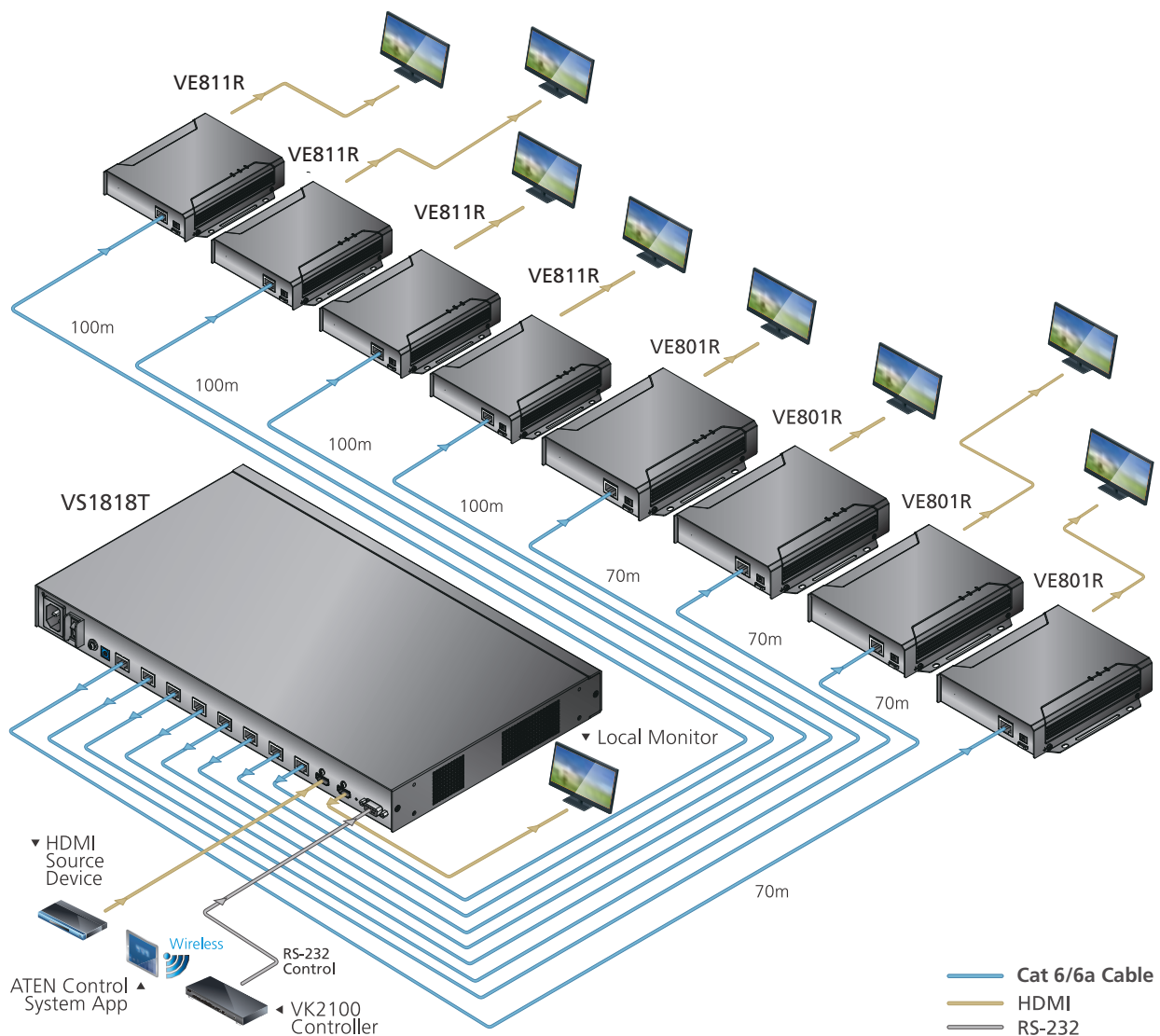
## VS1814T / VS1818T 4/8-Port HDMI HDBaseT Splitter (HDBaseT Class A) **PRO**



### Features

- **HDBaseT Connectivity** – connects 1 HDMI input to 4/8 HDMI outputs over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- System management via RS-232 connections
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- A local HDMI port to connect an extra HDMI display
- Rack-mountable

### Setup > VS1818T + VE811R + VE801R



## Specifications

| Function                    | VS1814T                                                                                                                                                                                                                              | VS1818T                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                       | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                       |
| Impedance                   | 100 $\Omega$                                                                                                                                                                                                                         | 100 $\Omega$                                                                                                                                                                                                                         |
| Max. Distance               | 1.8 m                                                                                                                                                                                                                                | 1.8 m                                                                                                                                                                                                                                |
| <b>Video Output</b>         |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Interfaces                  | 1 x HDMI Type A Female (Black) - Local Output<br>4 x RJ-45 Female                                                                                                                                                                    | 1 x HDMI Type A Female (Black) - Local Output<br>8 x RJ-45 Female                                                                                                                                                                    |
| Impedance                   | 100 $\Omega$                                                                                                                                                                                                                         | 100 $\Omega$                                                                                                                                                                                                                         |
| <b>Video</b>                |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                                                                                                        | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                                                                                                        |
| Max. Pixel Clock            | 340 MHz                                                                                                                                                                                                                              | 340 MHz                                                                                                                                                                                                                              |
| Compliance                  | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)<br>HDBaseT Compatible                                                                                                                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)<br>HDBaseT Compatible                                                                                                                             |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)<br>(Depends on connected receiver)                                                                                                       | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)<br>(Depends on connected receiver)                                                                                                       |
| Max. Distance               | Up to 100 m (Depends on connected receiver)                                                                                                                                                                                          | Up to 100 m (Depends on connected receiver)                                                                                                                                                                                          |
| <b>Audio</b>                |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Input                       | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                       | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                       |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                       | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                       |
| <b>Control</b>              |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br>Serial Control Pin Configurations: Pin2 = Tx,<br>Pin 3=Rx, Pin 5= Gnd<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1,<br>Parity: No, Flow Control: No | <b>Connector:</b> 1 x DB-9 Female (Black)<br>Serial Control Pin Configurations: Pin2 = Tx,<br>Pin 3=Rx, Pin 5= Gnd<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1,<br>Parity: No, Flow Control: No |
| <b>EDID Settings</b>        | EDID Mode: Default / Port 1 / Auto / Learn                                                                                                                                                                                           | EDID Mode: Default / Port 1 / Auto / Learn                                                                                                                                                                                           |
| <b>Connectors</b>           |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Power                       | 1 x 3-Prong AC Socket (Black)                                                                                                                                                                                                        | 1 x 3-Prong AC Socket (Black)                                                                                                                                                                                                        |
| Consumption                 | AC110V: 18.2W; AC220V: 18.2W                                                                                                                                                                                                         | AC110V: 31.7W; AC220V: 31.7W                                                                                                                                                                                                         |
| <b>Environmental</b>        |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Operating Temperature       | 0 - 50°C                                                                                                                                                                                                                             | 0 - 50°C                                                                                                                                                                                                                             |
| Storage Temperature         | -20 - 60°C                                                                                                                                                                                                                           | -20 - 60°C                                                                                                                                                                                                                           |
| <b>Power Consumption</b>    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                           | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                           |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
| Housing                     | Metal                                                                                                                                                                                                                                | Metal                                                                                                                                                                                                                                |
| Weight                      | 3.47 kg ( 7.64 lb )                                                                                                                                                                                                                  | 3.58 kg ( 7.89 lb )                                                                                                                                                                                                                  |
| Dimensions (L x W x H)      | 43.24 x 26.11 x 4.40 cm (17.02 x 10.28 x 1.73 in.)                                                                                                                                                                                   | 43.72 x 26.11 x 4.40 cm (17.21 x 10.28 x 1.73 in.)                                                                                                                                                                                   |
| <b>Carton Lot</b>           | 1 pcs                                                                                                                                                                                                                                | 1 pcs                                                                                                                                                                                                                                |
| <b>Included Accessories</b> | 1x Power Cord; 1x Mounting Kit                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

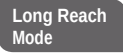
## Optional Accessories

| Description                    | Part No. / Spec. | Page No. |
|--------------------------------|------------------|----------|
| HDMI Cable*                    | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable            | 2L-2910          | 12-1     |
| Low Skew Cable                 | 2L-2801          | 12-3     |
| LockPro™ (HDMI Cable Lock)     | 2X-EA12          | 13-1     |
| HDMI HDBaseT-Lite Receiver     | VE801R           | 5-7      |
| HDMI HDBaseT-Standard Receiver | VE812R           | 5-6      |
| HDMI HDBaseT Receiver          | VE811R           | 5-5      |

\*Cables with different lengths are available; please refer to 12-5.



# VE811R HDMI HDBaseT Receiver (4K@100m)(HDBaseT Class A) 100 m PRO



Front



Rear



## Features

- **HDBaseT Connectivity** – extends an HDMI connection up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Plug-and-play
- Rack-mountable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat5e/6/2L-2910 at resolutions up to 1080p

## Specifications

| Function                               | VE811R                                                                                                                                                                                      |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Output</b>                    |                                                                                                                                                                                             |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                              |
| Impedance                              | 100 Ω                                                                                                                                                                                       |
| <b>Video</b>                           |                                                                                                                                                                                             |
| Max. Data Rate                         | 10.2Gbps (3.4Gbps per lane)                                                                                                                                                                 |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                     |
| Compliance                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                          |
| Max. Resolutions / Distance            | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                             |
| Output                                 | 1 x HDMI Type A Female (Black)                                                                                                                                                              |
| <b>Connectors</b>                      |                                                                                                                                                                                             |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                            |
| Firmware Upgrade                       | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                         |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                            |
| <b>Switches</b>                        |                                                                                                                                                                                             |
| Long Reach Mode Switch                 | 1 x Slide Switch - ON/OFF                                                                                                                                                                   |
| <b>Power Consumption</b>               |                                                                                                                                                                                             |
|                                        | DC5V: 3.84W                                                                                                                                                                                 |
| <b>Environmental</b>                   |                                                                                                                                                                                             |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                    |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                  |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                  |
| <b>Physical Properties</b>             |                                                                                                                                                                                             |
| Housing                                | Metal                                                                                                                                                                                       |
| Weight                                 | 0.17 kg ( 0.37 lb )                                                                                                                                                                         |
| Dimensions (L x W x H) with bracket    | 8.64 x 7.30 x 2.47 cm<br>(3.40 x 2.87 x 0.97 in.)                                                                                                                                           |
| Dimensions (L x W x H) without bracket | 8.20 x 5.20 x 2.37 cm<br>(3.23 x 2.05 x 0.93 in.)                                                                                                                                           |
| <b>Carton Lot</b>                      |                                                                                                                                                                                             |
|                                        | 5 pcs                                                                                                                                                                                       |
| <b>Included Accessories</b>            |                                                                                                                                                                                             |
|                                        | 1 x Power Adapter                                                                                                                                                                           |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1       | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

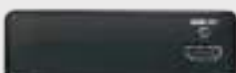
# VE812R HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A) 100 m PRO



Front



Rear



## Features

- **HDBaseT Connectivity** – extends an HDMI output over a long distance via single 5e/6/6a or ATEN 2L-2910 Cat 6 Cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

## Specifications

| Function                    | VE812R                                                                                                                                                      |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                             |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                              |
| Impedance                   | 100 Ω                                                                                                                                                       |
| <b>Video</b>                |                                                                                                                                                             |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                               |
| Max. Pixel Clock            | Up to 340 MHz                                                                                                                                               |
| Compliance                  | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                          |
| Max. Resolutions / Distance | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m<br>*4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                |                                                                                                                                                             |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                                              |
| <b>Connectors</b>           |                                                                                                                                                             |
| Power                       | 1 x DC Jack                                                                                                                                                 |
| <b>Power Consumption</b>    | DC5.3V: 5.06W                                                                                                                                               |
| <b>Environmental</b>        |                                                                                                                                                             |
| Operating Temperature       | 0 - 50°C                                                                                                                                                    |
| Storage Temperature         | -20 - 60°C                                                                                                                                                  |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                  |
| <b>Physical Properties</b>  |                                                                                                                                                             |
| Housing                     | Metal                                                                                                                                                       |
| Weight                      | 0.41 kg ( 0.9 lb )                                                                                                                                          |
| Dimensions (L x W x H)      | 14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)                                                                                                            |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                       |
| <b>Included Accessories</b> | 1 x Power Adapter; 1x Mounting Kit                                                                                                                          |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

# VE801R HDMI HDBaseT-Lite Receiver (4K@40m)(HDBaseT Class B) 70 m PRO



Rear



## Features

- **HDBaseT Connectivity** – extends an HDMI output over a long distance via single 5e/6/6a or ATEN 2L-2910 Cat 6 Cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology

## Specifications

| Function                               | VE801R                                                                                                                                                                              |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Output</b>                    |                                                                                                                                                                                     |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                      |
| Impedance                              | 100 $\Omega$                                                                                                                                                                        |
| <b>Video</b>                           |                                                                                                                                                                                     |
| Max. Data Rate                         | 10.2 Gbps (3.4Gbps per lane)                                                                                                                                                        |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                             |
| Compliance                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                  |
| Max. Resolutions / Distance            | Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                     |
| Output                                 | 1 x HDMI Type A Female (Black)                                                                                                                                                      |
| <b>Power</b>                           |                                                                                                                                                                                     |
| Connectors                             | 1 x DC Jack (Black) with locking                                                                                                                                                    |
| Consumption                            | DC5V: 4.24W                                                                                                                                                                         |
| <b>Environmental</b>                   |                                                                                                                                                                                     |
| Operating Temperature                  | 0 - 50°C                                                                                                                                                                            |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                          |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                          |
| <b>Physical Properties</b>             |                                                                                                                                                                                     |
| Housing                                | Metal                                                                                                                                                                               |
| Weight                                 | 0.25 kg ( 0.55 lb )                                                                                                                                                                 |
| Dimensions (L x W x H) with bracket    | 9.86 x 8.70 x 3.00 cm<br>(3.88 x 3.43 x 1.18 in.)                                                                                                                                   |
| Dimensions (L x W x H) without bracket | 9.42 x 6.60 x 2.90 cm<br>(3.71 x 2.6 x 1.14 in.)                                                                                                                                    |
| <b>Carton Lot</b>                      | 10 pcs                                                                                                                                                                              |
| <b>Included Accessories</b>            | 1 x Power Adapter                                                                                                                                                                   |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

## VS1804T / VS1808T 4/8-Port HDMI Cat 5 Splitter

PRO



Front

VS1804T



VS1808T

Rear

VS1804T



VS1808T

### Features

- Connects 1 HDMI input to 4/8 HDMI outputs via single Cat 5e cable\*
- System management via RS-232 connection
- A local HDMI port to connect an extra HDMI display
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Rack-mountable

\*If you need to use EDID Bypass and / or HDCP authentication, connect another Cat 5e cable between the VS1804T/1808T and VE800AR.

### Specifications

| Function                   | VS1804T                                                                                                                                                  | VS1808T                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>         |                                                                                                                                                          |                                                                                                                                                          |
| Interfaces                 | 1 x HDMI Type A Female (Black)                                                                                                                           | 1 x HDMI Type A Female (Black)                                                                                                                           |
| Impedance                  | 100 Ω                                                                                                                                                    | 100 Ω                                                                                                                                                    |
| Max. Distance              | 1.8 m                                                                                                                                                    | 1.8 m                                                                                                                                                    |
| <b>Video Output</b>        |                                                                                                                                                          |                                                                                                                                                          |
| Interfaces                 | 1 x HDMI Type A Female (Black) - Local Output<br>4 x RJ-45 Female                                                                                        | 1 x HDMI Type A Female (Black) - Local Output<br>8 x RJ-45 Female                                                                                        |
| Impedance                  | 100 Ω                                                                                                                                                    | 100 Ω                                                                                                                                                    |
| <b>Video</b>               |                                                                                                                                                          |                                                                                                                                                          |
| Max. Data Rate             | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                           | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                           |
| Max. Pixel Clock           | 225 MHz                                                                                                                                                  | 225 MHz                                                                                                                                                  |
| Compliance                 | HDMI (3D, Deep Color); HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                             | HDMI (3D, Deep Color); HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                             |
| Max. Resolution            | Up to 1080p (Depends on connected receiver)                                                                                                              | Up to 1080p (Depends on connected receiver)                                                                                                              |
| Max. Distance              | Up to 60 m (Depends on connected receiver)                                                                                                               | Up to 60 m (Depends on connected receiver)                                                                                                               |
| <b>Audio</b>               |                                                                                                                                                          |                                                                                                                                                          |
| Input                      | 1 x HDMI Type A Female (Black)                                                                                                                           | 1 x HDMI Type A Female (Black)                                                                                                                           |
| Output                     | 1 x HDMI Type A Female (Black)                                                                                                                           | 1 x HDMI Type A Female (Black)                                                                                                                           |
| <b>Control</b>             |                                                                                                                                                          |                                                                                                                                                          |
| RS-232                     | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| EDID Settings              | EDID Mode: Default / Port 1 / Learn                                                                                                                      | EDID Mode: Default / Port 1 / Learn                                                                                                                      |
| <b>Connectors</b>          |                                                                                                                                                          |                                                                                                                                                          |
| Power                      | 1 x DC Jack (Black)                                                                                                                                      | 1 x DC Jack (Black)                                                                                                                                      |
| Power Consumption          | DC5.3V:5.2W                                                                                                                                              | DC5.3V:7.7W                                                                                                                                              |
| <b>Environmental</b>       |                                                                                                                                                          |                                                                                                                                                          |
| Operating Temperature      | 0 - 50°C                                                                                                                                                 | 0 - 50°C                                                                                                                                                 |
| Storage Temperature        | -20 - 60°C                                                                                                                                               | -20 - 60°C                                                                                                                                               |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                                               | 0 - 80% RH, Non-Condensing                                                                                                                               |
| <b>Physical Properties</b> |                                                                                                                                                          |                                                                                                                                                          |
| Housing                    | Metal                                                                                                                                                    | Metal                                                                                                                                                    |
| Weight                     | 2.10 kg ( 4.63 lb )                                                                                                                                      | 2.15 kg ( 4.74 lb )                                                                                                                                      |
| Dimensions (L x W x H)     | 43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)                                                                                                        | 43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)                                                                                                        |
| Carton Lot                 | 3 pcs                                                                                                                                                    | 3 pcs                                                                                                                                                    |
| Included Accessories       | 1 x Power Adapter, 1x Mounting Kit                                                                                                                       |                                                                                                                                                          |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| HDMI Repeater       | VB802            | 5-9      |
| HDMI Receiver       | VE800AR          | 5-10     |

\*Cables with different lengths are available; please refer to 12-5.

# VB802 HDMI Cat 5 Repeater (1080p@40m) 60 m PHD



Front



Rear



## Features

- Extends HDMI signals via two Cat 5e cables
- A local HDMI port to connect an extra HDMI display
- Supports 8-segment equalization adjustment for optimum display quality
- Cascadable to 5 levels\*
- Firmware upgradable
- Rack-mountable

Note: \*Signal quality depends on cable. It is recommended you use STP Cat 5e cable or ATEN low skew cable.

## Specifications

| Function                    | VB802                                              |
|-----------------------------|----------------------------------------------------|
| <b>Video Output</b>         |                                                    |
| Interfaces                  | 1 x HDMI Type A Female (Black)<br>2 x RJ-45 Female |
| Impedance                   | 100 Ω                                              |
| <b>Video</b>                |                                                    |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                     |
| Max. Pixel Clock            | 225 MHz                                            |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP Compatible           |
| Max. Resolutions / Distance | Up to 1080p@40m; 1080i@60m                         |
| <b>Audio</b>                |                                                    |
| Output                      | 1 x HDMI Type A Female (Black)                     |
| <b>Connectors</b>           |                                                    |
| Power                       | 1 x DC Jack (Black)                                |
| <b>Power Consumption</b>    | DC5V:12.28W                                        |
| <b>Environmental</b>        |                                                    |
| Operating Temperature       | 0 - 50°C                                           |
| Storage Temperature         | -20 - 60°C                                         |
| Humidity                    | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b>  |                                                    |
| Housing                     | Metal                                              |
| Weight                      | 0.25 kg ( 0.55 lb )                                |
| Dimensions (L x W x H)      | 12.30 x 9.04 x 2.26 cm (4.84 x 3.56 x 0.89 in.)    |
| <b>Carton Lot</b>           | 20 pcs                                             |
| <b>Included Accessories</b> | 1 x Power Adapter; 1x Mounting Kit                 |

## Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |

\*Cables with different lengths are available; please refer to 12-5.

## VE800AR HDMI Cat 5 Receiver (1080p@40m) 60 m PRO



Front



Rear



### Features

- Extends an HDMI output via single Cat 5e cable\*
- Supports 8-segment equalization adjustment for optimum display quality
- Rack-mountable

Note: \*A second Cat 5e cable is required if EDID Bypass and / or HDCP authentication needs to be enabled.

### Specifications

| Function                    | VE800AR                                        |
|-----------------------------|------------------------------------------------|
| <b>Video Output</b>         |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | 100 $\Omega$                                   |
| <b>Video</b>                |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                        |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP Compatible       |
| Max. Resolutions / Distance | Up to 1080p@40m; 1080i@60m                     |
| <b>Audio</b>                |                                                |
| Output                      | 1 x HDMI Type A Female (Black)                 |
| <b>Connectors</b>           |                                                |
| Power                       | 1 x DC Jack (Black)                            |
| <b>Power Consumption</b>    | DC5V: 0.608W                                   |
| <b>Environmental</b>        |                                                |
| Operating Temperature       | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                |
| Housing                     | Metal                                          |
| Weight                      | 0.16 kg ( 0.35 lb )                            |
| Dimensions (L x W x H)      | 9.00 x 5.50 x 2.30 cm (3.54 x 2.17 x 0.91 in.) |
| <b>Carton Lot</b>           | 5 pcs                                          |
| <b>Included Accessories</b> | 1 x Power Adapter; 1x Mounting Kit             |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |

\*Cables with different lengths are available; please refer to 12-5.



## VS1204T / VS1208T 4/8-Port VGA/Audio Cat 5 Splitter **PRO**



Front VS1204T



VS1208T

Rear VS1204T



VS1208T

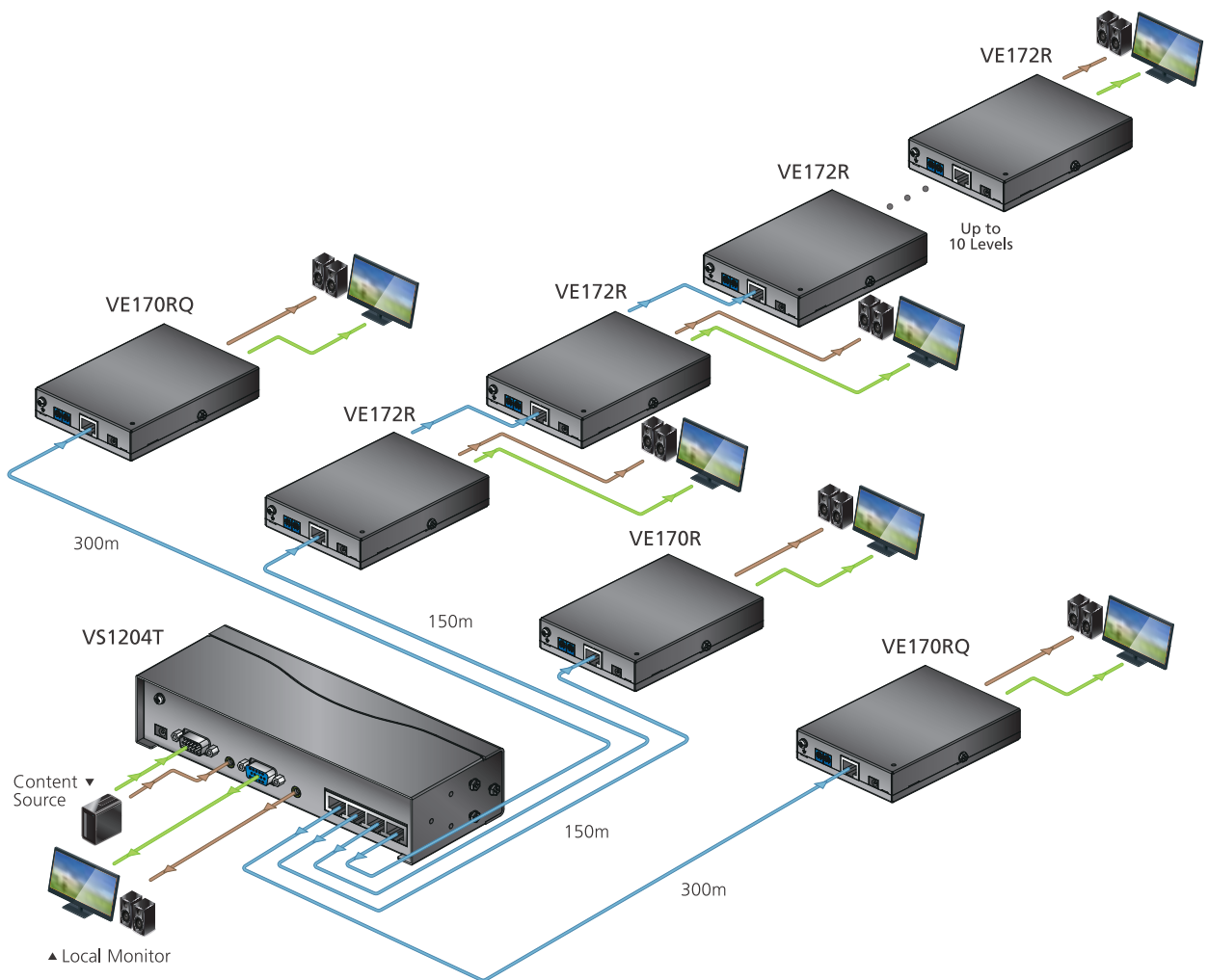


### Features

- Connects 1 VGA input to 4/8 VGA outputs via Cat 5e cables
- A local VGA port to connect an extra VGA display
- Rack-mountable

5

### Setup > VS1204T + VE172R + VE170R + VE170RQ



— Cat 5e Cable  
— VGA  
— Audio

## Specifications

| Function                    | VS1204T                                                     | VS1208T                                                     |
|-----------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <b>Video Input</b>          |                                                             |                                                             |
| Interfaces                  | 1 x HDB-15 Male (Blue)                                      | 1 x HDB-15 Male (Blue)                                      |
| Impedance                   | 75 $\Omega$                                                 | 75 $\Omega$                                                 |
| Max. Distance               | 1.8 m                                                       | 1.8 m                                                       |
| <b>Video Output</b>         |                                                             |                                                             |
| Interfaces                  | 1 x HDB-15 Female (Blue) - Local Output<br>4 x RJ-45 Female | 1 x HDB-15 Female (Blue) - Local Output<br>8 x RJ-45 Female |
| Impedance                   | 75 $\Omega$                                                 | 75 $\Omega$                                                 |
| <b>Video</b>                |                                                             |                                                             |
| Max. Bandwidth              | 225 MHz                                                     | 225 MHz                                                     |
| Max. Resolutions / Distance | Up to 1920 x 1200@60Hz@150m;<br>1280 x 1024@60Hz@300m       | Up to 1920 x 1200@60Hz@150m;<br>1280 x 1024@60Hz@300m       |
| <b>Audio</b>                |                                                             |                                                             |
| Input                       | 1 x Mini Stereo Jack Female (Green)                         | 1 x Mini Stereo Jack Female (Green)                         |
| Output                      | 1 x Mini Stereo Jack Female (Green)                         | 1 x Mini Stereo Jack Female (Green)                         |
| <b>Connectors</b>           |                                                             |                                                             |
| Power                       | 1 x DC Jack (Black)                                         | 1 x DC Jack (Black)                                         |
| <b>Power Consumption</b>    | DC5.3V:3.55W                                                | DC5.3V:7.04W                                                |
| <b>Environmental</b>        |                                                             |                                                             |
| Operating Temperature       | 0 - 50°C                                                    | 0 - 50°C                                                    |
| Storage Temperature         | -20 - 60°C                                                  | -20 - 60°C                                                  |
| Humidity                    | 0 - 80% RH, Non-Condensing                                  | 0 - 80% RH, Non-Condensing                                  |
| <b>Physical Properties</b>  |                                                             |                                                             |
| Housing                     | Metal                                                       | Metal                                                       |
| Weight                      | 0.59 kg ( 1.3 lb )                                          | 0.64 kg ( 1.41 lb )                                         |
| Dimensions (L x W x H)      | 20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)             | 20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)             |
| <b>Carton Lot</b>           | 5 pcs                                                       | 5 pcs                                                       |
| <b>Included Accessories</b> | 1 x Power Adapter; 1x Mounting Kit                          |                                                             |

## Optional Accessories

| Description                          | Part No. / Spec. | Page No. |
|--------------------------------------|------------------|----------|
| HDBaseT Cat 6 Cable                  | 2L-2910          | 12-1     |
| Low Skew Cable                       | 2L-2801          | 12-3     |
| VGA / Audio Cable                    | 2L-2402A (2 m)   | 12-6     |
| VGA EDID Emulator                    | 2A-130G          | 10-19    |
| A/V Over Cat 5 Receiver with Cascade | VE172R           | 5-13     |
| A/V Over Cat 5 Receiver              | VE170R / VE170RQ | 5-14     |

## VE172R VGA/Audio Cat 5 Receiver with Cascade (1280 x 1024@150m) 150 m



Front



Rear



### Features

- Connects a transmitter and a receiver via a Cat 5e cable
- Cascadable up to 10 levels\*
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

Note: \* Signal quality depends on cable. It is recommended you use STP Cat 5e cables or ATEN low skew cable.

### Specifications

| Function                    | VE172R                                          |
|-----------------------------|-------------------------------------------------|
| <b>Video Output</b>         |                                                 |
| Interfaces                  | 1 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 $\Omega$                                     |
| <b>Video</b>                |                                                 |
| Max. Bandwidth              | 300 MHz                                         |
| Max. Resolutions / Distance | Up to 1920 x 1200@30m; 1280 x 1024@150m         |
| <b>Audio</b>                |                                                 |
| Output                      | 1 x Mini Stereo Jack Female (Green)             |
| <b>Connectors</b>           |                                                 |
| Power                       | 1 x DC Jack (Black)                             |
| <b>Power Consumption</b>    | DC5.3V: 2.29W                                   |
| <b>Environmental</b>        |                                                 |
| Operating Temperature       | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                 |
| Housing                     | Metal                                           |
| Weight                      | 0.24 kg ( 0.53 lb )                             |
| Dimensions (L x W x H)      | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.) |
| <b>Carton Lot</b>           | 5 pcs                                           |
| <b>Included Accessories</b> | 1 x Power Adapter; 1x Mounting Kit              |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| VGA EDID Emulator   | 2A-130G          | 10-19    |

# VE170R VE170RQ

VGA/Audio Cat 5 Receiver (1024 x 768@300m)

300 m

PRO

VGA/Audio Cat 5 Receiver with Deskew (1280 x 1024@300m)



(VE170RQ)

Front



Rear



VE170R

VE170RQ

## Features

- Connects a transmitter and a receiver via Cat 5e cable
- **Deskew** (VE170RQ) – automatically synchronizes the time delay of RGB signals to compensate for distance
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

## Specifications

| Function                    | VE170R                                                   | VE170RQ                                         |
|-----------------------------|----------------------------------------------------------|-------------------------------------------------|
| <b>Video Output</b>         |                                                          |                                                 |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                 | 1 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 Ω                                                     | 75 Ω                                            |
| Max. Distance               | 1.8 m                                                    | 1.8 m                                           |
| <b>Video</b>                |                                                          |                                                 |
| Max. Bandwidth              | 300 MHz                                                  | 300 MHz                                         |
| Max. Resolutions / Distance | Up to 1920 x 1200@30m; 1600 x 1200@150m; 1024 x 768@300m | Up to 1920 x 1200@150m; 1280 x 1024@300m        |
| <b>Audio</b>                |                                                          |                                                 |
| Output                      | 1 x Mini Stereo Jack Female (Green)                      | 1 x Mini Stereo Jack Female (Green)             |
| <b>Connectors</b>           |                                                          |                                                 |
| Power                       | 1 x DC Jack (Black)                                      | 1 x DC Jack (Black)                             |
| <b>Power Consumption</b>    |                                                          |                                                 |
|                             | DC5.3V: 3.32W                                            | DC5.3V: 5.24W                                   |
| <b>Environmental</b>        |                                                          |                                                 |
| Operating Temperature       | 0 - 50°C                                                 | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                               | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                               | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                          |                                                 |
| Housing                     | Metal                                                    | Metal                                           |
| Weight                      | 0.24 kg ( 0.53 lb )                                      | 0.24 kg ( 0.53 lb )                             |
| Dimensions (L x W x H)      | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)          | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.) |
| <b>Carton Lot</b>           |                                                          |                                                 |
|                             | 5 pcs                                                    | 5 pcs                                           |
| <b>Included Accessories</b> |                                                          |                                                 |
|                             | 1 x Power Adapter; 1x Mounting Kit                       |                                                 |

## Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| VGA EDID Emulator   | 2A-130G          | 10-19    |

# Video Matrix Switches

ATEN video matrix switches route and amplify AV signals from multiple sources to multiple destinations, allowing you to extend your installation up to 70m while maintaining excellent video quality. Front panel pushbuttons allow you to select the video input to video output connections. They can also be cascaded with ATEN video splitters for even more displays. ATEN video matrix switches are ideal for applications that require information from multiple source devices to be delivered to multiple screens and/or projectors – in locations such as corporates or service centers.



## 6

### Video Matrix Switches

- **Seamless Switch™ Technology**

ATEN Seamless Switch™ technology features instantaneous video switching to deliver the highest quality video powered by an exclusive seamless engine implemented at each output port. The Video Matrix Switches have a built-in scaler with an FPGA design that can unify video formats and provide continuous video streams, real-time switching and stable signal transmission.

- **FPGA Design Benefits**

Implementation of the FPGA design allows TMDS signals to be rearranged when transmitting high-speed data. This is used by digital video interfaces, as well as other digital communication interfaces. Consequently, this benefit leads to smoother digital signal transmission over longer distances.

- **Effortless Control of Multiple Sources to Multiple Outputs**

Video Matrix Switches offer an easy and affordable way to route multiple audio/video sources to multiple audio/video targets (speakers and displays). Each input can be directed to any or all outputs, giving you ultimate flexibility and control in any multimedia installation.

- **Outstanding Multimedia Support**

In addition to high-quality video, the integrated audio component delivers an outstanding AVV experience when working with popular multimedia applications.

- **Tear-free Video Walls**

ATEN's FrameSync Technology prevents screen tearing by synchronizing the scaler frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls.

- **Perfect Video-Wall Integration with Scaler**

The Video Matrix Switches are equipped with video wall and scaler functionalities that ensure all input sources rendered at optimum output resolutions on displays with uncompromised precision. The scaler also guarantees that all video content is delivered across all screens with no delays or signal loss. The video wall functionality allows you to customize display layouts using the intuitive web GUI which has won the Red Dot Interface Design award.

Note: 1. The features highlighted above are not available in all products. Please refer to each product page for more details.

2. Product information is subject to change without prior notice.

## Specifications at a Glance

| Interface          | HDBaseT / HDMI                     | HDMI                               |                                    |                     |                    |
|--------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|--------------------|
| Model              | VM3404H<br>VM3909H                 | VM6404H                            | VM6809H                            | VM51616H            | VM5404H<br>VM5808H |
| Inputs to Outputs  | 4 to 4 / 9 to 9                    | 4 to 4                             | 8 to 9                             | 16 to 16            | 4 to 4 / 8 to 8    |
| Max. Resolution    | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4) | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4) | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4) | 1080p               | 1080p              |
| HDCP               | 1.4                                | 2.2                                | 2.2                                | 1.4                 | 1.4                |
| Audio              | • (HDMI)                           | • (HDMI)                           | •<br>(HDMI, Stereo)                | •<br>(HDMI, Stereo) | • (HDMI)           |
| Seamless Swtich™   | •*                                 | •                                  | •                                  | •                   | •                  |
| Scaler             | •*                                 | •                                  | •                                  | •                   | •                  |
| Video Wall         | •*                                 | •                                  | •                                  | •                   | •                  |
| FrameSync          | •*                                 | •                                  | •                                  | •                   | N/A                |
| Audio De-embedding | N/A                                | N/A                                | •                                  | •                   | N/A                |
| Web GUI            | •                                  | •                                  | •                                  | •                   | •                  |
| RS-232 Control     | •                                  | •                                  | •                                  | •                   | •                  |
| IR Control         | • (VM3404H)                        | •                                  | N/A                                | N/A                 | •                  |
| Ethernet Control   | •                                  | •                                  | •                                  | •                   | •                  |

\*The availability of these features depends on which receiver is used

| Interface         | HDMI                 |                                    |                                    | DVI                | VGA         |             |
|-------------------|----------------------|------------------------------------|------------------------------------|--------------------|-------------|-------------|
| Model             | VM0404HB<br>VM0808HB | VM0404HA<br>VM0808HA               | VM0202H                            | VM5404D<br>VM5808D | VM0404      | VS0202      |
| Inputs to Outputs | 4 to 4 / 8 to 8      | 4 to 4 / 8 to 8                    | 2 to 2                             | 4 to 4 / 8 to 8    | 4 to 4      | 2 to 2      |
| Max. Resolution   | 4K@60Hz<br>(4:4:4)   | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4) | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4) | 1920 x 1200        | 1920 x 1440 | 1920 x 1200 |
| HDR               | •                    | N/A                                | N/A                                | N/A                | N/A         | N/A         |
| HDCP              | 2.2                  | VM0404HA: 1.4<br>VM0808HA: 2.2     | 1.4                                | 1.4                | N/A         | N/A         |
| Audio             | • (HDMI)             | • (HDMI)                           | • (HDMI)                           | N/A                | •           | •           |
| Seamless Swtich™  | N/A                  | N/A                                | N/A                                | •                  | N/A         | N/A         |
| Scaler            | N/A                  | N/A                                | N/A                                | •                  | N/A         | N/A         |
| Video Wall        | N/A                  | N/A                                | N/A                                | •                  | N/A         | N/A         |
| Web GUI           | •                    | • (VM0808HA)                       | N/A                                | •                  | N/A         | N/A         |
| RS-232 Control    | •                    | •                                  | •                                  | •                  | •           | N/A         |
| IR Control        | •                    | •                                  | •                                  | •                  | •           | N/A         |
| Ethernet Control  | •                    | • (VM0808HA)                       | N/A                                | •                  | N/A         | N/A         |



# VM3404H 4 x 4 4K HDMI HDBaseT-Lite Matrix Switch

# VM3909H 9 x 9 4K HDMI HDBaseT-Lite Matrix Switch



reddot award 2015  
winner interface design



PRO

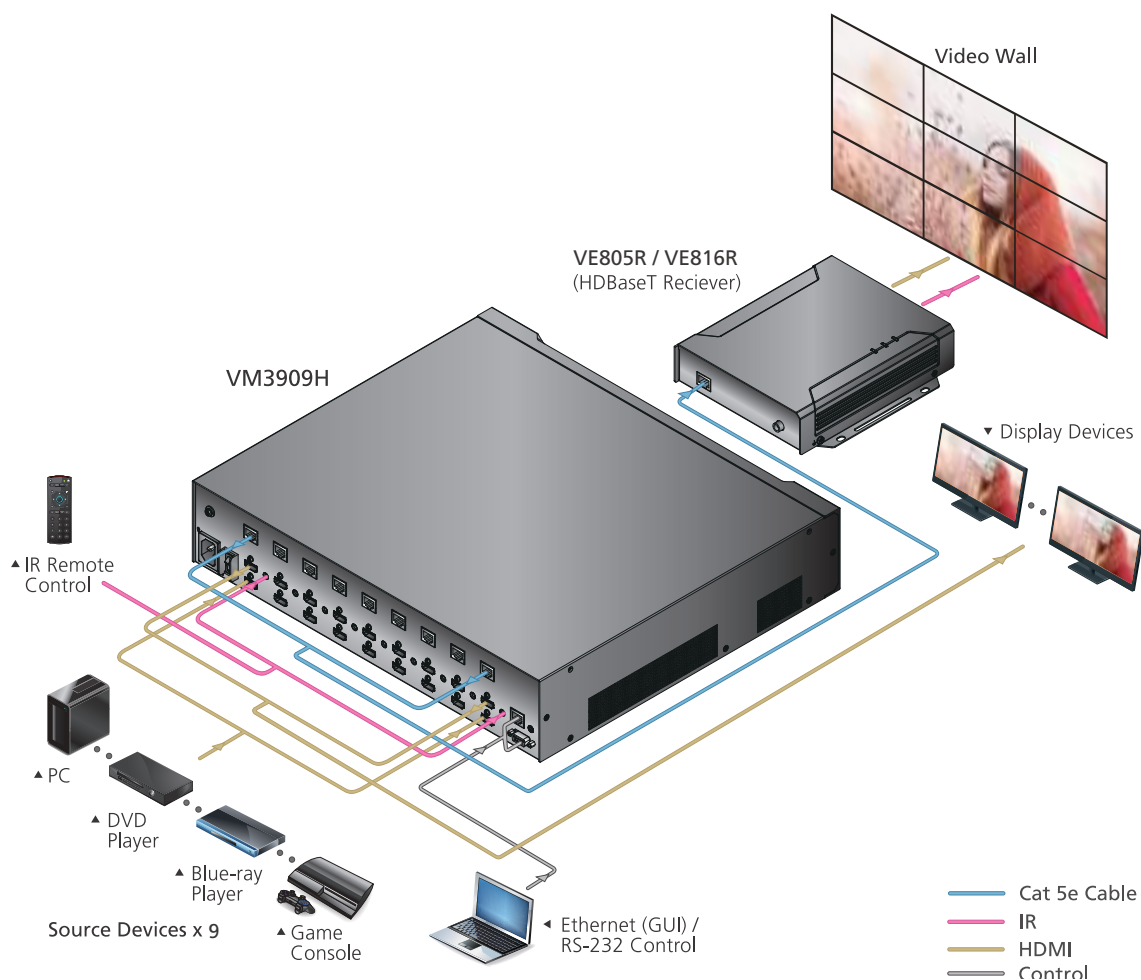


## Features

- Supports 4 / 9 HDMI inputs and mirrored 4 / 9 HDMI and HDBaseT outputs
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- **HDBaseT Connectivity** – connects HDMI sources and displays over a long distance via one Cat 6/6a/ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission
- **Power over HDBaseT (POH)** – supplies power over a long distance from the switch to a receiver over a single Cat 6/6a/ATEN 2L-2910 Cat 6 cable\*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **Bi-directional IR channel** for IR signal control; full range IR transmission (30~60 KHz) is processed one direction at a time
- **ESD protection** for HDMI
- Rack-mountable (VM3404H / VM3909H: 1U / 2U Design)

Note: \*The Seamless Switch™, Video Wall and POH features are only available when used the compatible receiver. The VM3404H / VM3909H can provide up to 15.4W@54 VDC of power per port and 35W / 75W of total power; please ensure that the power consumption of the devices connected to the VM3404H / VM3909H does not exceed this limit.

## Setup > VM3404H / VM3909H



## Specifications

| Function                   | VM3404H                                                                                                                                    | VM3909H                                                                   |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Video Input                |                                                                                                                                            |                                                                           |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                             | 9 x HDMI Type A Female (Black)                                            |
| Impedance                  | 100 Ω                                                                                                                                      | 100 Ω                                                                     |
| Max. Distance              | 1.8 m                                                                                                                                      | 1.8 m                                                                     |
| Video Output               |                                                                                                                                            |                                                                           |
| Interfaces                 | 4 x HDMI Type A Female (Black); 4 x RJ-45 Female                                                                                           | 9 x HDMI Type A Female (Black) ; 9 x RJ-45 Female                         |
| Impedance                  | 100 Ω                                                                                                                                      | 100 Ω                                                                     |
| Max. Distance              | HDMI: up to 15 m<br>HDBaseT (Class B): 4K up to 35 m (Cat 5e/6) / 40 m (Cat 6a); 1080p up to 60 m (Cat 5e/6) / 70 m (Cat 6a)               |                                                                           |
| Video                      |                                                                                                                                            |                                                                           |
| Max. Data Rate             | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                              |                                                                           |
| Max. Pixel Clock           | 340 MHz                                                                                                                                    |                                                                           |
| Compliance                 | HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible<br>Consumer Electronic Control (CEC)<br>HDBaseT Compatible                                  |                                                                           |
| Max. Resolution            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                                                   |                                                                           |
| Max. Distance              | Up to 70 m (Cat 6a)                                                                                                                        |                                                                           |
| Control                    |                                                                                                                                            |                                                                           |
| RS-232                     | Connector: 1 x DB-9 Female (Black)<br>Baud rate and protocol:<br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |                                                                           |
| IR Channel                 | 4 x Mini Stereo Jack Female (Black);<br>30~60 KHz full range transmission                                                                  | 9 x Mini Stereo Jack Female (Black);<br>30~60 KHz full range transmission |
| Ethernet                   | 1 x RJ-45 Female                                                                                                                           | 1 x RJ-45 Female                                                          |
| EDID Settings              | EDID Mode: Default / Port1 / Remix / Customized                                                                                            |                                                                           |
| Power                      |                                                                                                                                            |                                                                           |
| Connectors                 | 1 x 3-Prong AC Socket                                                                                                                      | 1 x 3-Prong AC Socket                                                     |
| Maximum Input Power Rating | 100-240 VAC; 50-60 Hz; 1.0A                                                                                                                | 100-240 VAC; 50-60 Hz; 1.0A                                               |
| Consumption                | AC 110V: 62W; AC220V: 60.6W                                                                                                                | AC 110V: 122W; AC220V: 120W                                               |
| Environmental              |                                                                                                                                            |                                                                           |
| Operating Temperature      | 0 - 50°C                                                                                                                                   | 0 - 50°C                                                                  |
| Storage Temperature        | -20 - 60°C                                                                                                                                 | -20 - 60°C                                                                |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                                 | 0 - 80% RH, Non-Condensing                                                |
| Physical Properties        |                                                                                                                                            |                                                                           |
| Housing                    | Metal                                                                                                                                      | Metal                                                                     |
| Weight                     | 5.62 kg (12.38 lb)                                                                                                                         | 7.33 kg (16.15 lb)                                                        |
| Dimensions (L x W x H)     | 43.24 x 38.23 x 4.40 cm (17.02 x 15.05 x 1.73 in.)                                                                                         | 43.24 x 38.23 x 8.80 cm (17.02 x 15.05 x 3.46 in.)                        |
| Rack Height (U Spaces)     | 1U                                                                                                                                         | 2U                                                                        |
| Carton Lot                 | 1 pc                                                                                                                                       | 1 pc                                                                      |
| Included Accessories       | 1x Power Cord; 1x Mounting Kit                                                                                                             |                                                                           |
| Optional Accessories       | Please refer to 6-14                                                                                                                       |                                                                           |

## Compatible Receivers

| Model                | Max. Distance | IR  | 4K  | Seamless Switch™ | Video Wall | POH | Dual View | FrameSync |
|----------------------|---------------|-----|-----|------------------|------------|-----|-----------|-----------|
| VE801R               | 70m*          | N/A | •   | N/A              | N/A        | N/A | N/A       | N/A       |
| VE802R               | 70m*          | •   | •   | N/A              | N/A        | •   | N/A       | N/A       |
| VE805R (with Scaler) | 70m*          | •   | N/A | •                | •          | N/A | N/A       | N/A       |
| VE816R (with Scaler) | 70m*          | •   | •   | •                | •          | N/A | N/A       | •         |
| VE814AR              | 70m*          | •   | •   | N/A              | N/A        | N/A | •         | N/A       |
| VE601R (DVI)         | 70m*          | N/A | N/A | N/A              | N/A        | N/A | N/A       | N/A       |
| VE901R               | 70m*          | N/A | •   | N/A              | N/A        | N/A | N/A       | N/A       |

\* A Cat 6a cable is required to extend the distance up to 70 meters.

# VM6404H 4 x 4 4K HDMI Matrix Switch with Scaler

# VM6809H 8 x 9 4K HDMI Matrix Switch with Scaler



reddot award 2015  
winner interface design

FrameSync

EDID

HDCP 2.2

HDMI

4K



A/V In  
HDMI



A/V Out  
HDMI

RS-232  
Control



IR Remote  
Control



FPGA  
Design

4K

Scaler



Seamless  
Switch



Video  
Wall

(VM6404H)

## Features

- 4 x 4 or 8 x 9 HDMI I/O connections
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR (VM6404H), RS-232, and Ethernet connections
- **4K Scaler** – features a 4K video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Audio-enabled – HDMI audio can be extracted to stereo audio (VM6809H)
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) support
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Front

VM6404H



VM6809H

Rear

VM6404H



VM6809H

## Specifications

| Function                   | VM6404H                                                                                                        | VM6809H                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Video Input                |                                                                                                                |                                                    |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                 | 8 x HDMI Type A Female (Black)                     |
| Impedance                  | 100 Ω                                                                                                          | 100 Ω                                              |
| Max. Distance              | 1.8 m                                                                                                          | 1.8 m                                              |
| Video Output               |                                                                                                                |                                                    |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                 | 9 x HDMI Type A Female (Black)                     |
| Impedance                  | 100 Ω                                                                                                          | 100 Ω                                              |
| Max. Distance              | 15 m                                                                                                           | 15 m                                               |
| Video                      |                                                                                                                |                                                    |
| Max. Data Rate             | 10.2 Gbps (3.40 Gbps per lane)                                                                                 |                                                    |
| Max. Pixel Clock           | 340 MHz                                                                                                        |                                                    |
| Compliance                 | HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)                             |                                                    |
| Max. Resolution            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                       |                                                    |
| Max. Distance              | Up to 15 m                                                                                                     |                                                    |
| Audio                      |                                                                                                                |                                                    |
| Output                     | N/A                                                                                                            | 1 x Mini Stereo Jack Female (Green)                |
| Control                    |                                                                                                                |                                                    |
| RS-232                     | Connector: 1 x DB-9 Female (Black); Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No |                                                    |
| IR                         | 1 x Mini Stereo Jack Female (Black)                                                                            | N/A                                                |
| Ethernet                   | 1 x RJ-45 Female                                                                                               |                                                    |
| EDID Settings              | EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)                                         |                                                    |
| Power                      |                                                                                                                |                                                    |
| Connectors                 | 1 x 3-prong AC Socket                                                                                          | 1 x 3-prong AC Socket                              |
| Maximum Input Power Rating | 100-240 VAC; 50-60Hz; 1.0A                                                                                     | 100-240 VAC; 50-60Hz; 1.0A                         |
| Consumption                | AC110V: 47.6W; AC220V: 47.5W                                                                                   | AC110V: 79.5W; AC220V: 78.1W                       |
| Environmental              |                                                                                                                |                                                    |
| Operating Temperature      | 0 - 50°C                                                                                                       | 0 - 50°C                                           |
| Storage Temperature        | -20 - 60°C                                                                                                     | -20 - 60°C                                         |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                     | 0 - 80% RH, Non-Condensing                         |
| Physical Properties        |                                                                                                                |                                                    |
| Housing                    | Metal                                                                                                          | Metal                                              |
| Weight                     | 4.72 kg (10.4 lb)                                                                                              | 7.05 kg (15.42 lb)                                 |
| Dimensions (L x W x H)     | 43.24 x 30.73 x 4.40 cm (17.02 x 12.1 x 1.73 in.)                                                              | 43.24 x 45.03 x 4.40 cm (17.02 x 17.73 x 1.73 in.) |
| Carton Lot                 | 1 pc                                                                                                           | 1 pc                                               |
| Included Accessories       | 1x Power Cord; 1x IR Remote Control (VM6404H); 1x IR Receiver (VM6404H); 1x Mounting Kit                       |                                                    |
| Optional Accessories       | Please refer to 6-14                                                                                           |                                                    |

# VM51616H 16 x 16 HDMI Matrix Switch with Scaler



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Front



Rear



## Features

- 16 x 16 HDMI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front panel pushbuttons, RS-232, and Ethernet connections
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- **Local HDMI Output** – allows multiple preview of 16 video sources
- Audio-enabled – HDMI audio can be extracted to stereo audio
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby TrueHD and DTS HD Master audio
- **ESD protection** for HDMI
- Rack-mountable (2U design)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

## Specifications

| Function                    | VM51616H                                                                                                                                   |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                            |
| Interfaces                  | 16 x HDMI Type A Female (Black)                                                                                                            |
| Impedance                   | 100 Ω                                                                                                                                      |
| Max. Distance               | Up to 5 m                                                                                                                                  |
| <b>Video Output</b>         |                                                                                                                                            |
| Interfaces                  | 16 x HDMI Type A Female (Black)<br>(Array Mode): 1 x HDMI Type A Female (Black)                                                            |
| Impedance                   | 100 Ω                                                                                                                                      |
| Max. Distance               | Up to 15 m                                                                                                                                 |
| <b>Video</b>                |                                                                                                                                            |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                             |
| Max. Pixel Clock            | 225 MHz                                                                                                                                    |
| Compliance                  | HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)                                                             |
| Max. Resolution             | Up to 1080p                                                                                                                                |
| <b>Audio</b>                |                                                                                                                                            |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                                                                        |
| <b>Control</b>              |                                                                                                                                            |
| RS-232                      | Connector: 1 x DB-9 Female (Black)<br>Baud rate and protocol:<br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| Ethernet                    | 1 x RJ-45 Female                                                                                                                           |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default / Port1 / Remix / Customized (EDID Wizard support)                                                               |
| <b>Power</b>                |                                                                                                                                            |
| Connectors                  | 1 x 3-Prong AC Socket                                                                                                                      |
| Maximum Input Power Rating  | 100-240 VAC; 50-60 Hz; 1.0A                                                                                                                |
| Consumption                 | AC110V: 124.5W; AC220V: 121.8W                                                                                                             |
| <b>Environmental</b>        |                                                                                                                                            |
| Operating Temperature       | 0 - 40°C                                                                                                                                   |
| Storage Temperature         | -20 - 60°C                                                                                                                                 |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                 |
| <b>Physical Properties</b>  |                                                                                                                                            |
| Housing                     | Metal                                                                                                                                      |
| Weight                      | 7.86 kg (17.33 lb)                                                                                                                         |
| Dimensions (L x W x H)      | 43.24 x 38.18 x 8.80 cm (17.02 x 15.03 x 3.46 in.)                                                                                         |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                       |
| <b>Included Accessories</b> | 1x Power Cord; 1x Mounting Kit                                                                                                             |
| <b>Optional Accessories</b> | Please refer to 6-14                                                                                                                       |

# VM5404H 4 x 4 HDMI Matrix Switch with Scaler

# VM5808H 8 x 8 HDMI Matrix Switch with Scaler



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Front

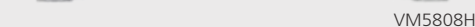


VM5404H

Rear



VM5404H



VM5808H

## Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby TrueHD and DTS HD Master audio
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

## Specifications

| Function                   | VM5404H                                                                                                                                  | VM5808H                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Video Input                |                                                                                                                                          |                                                    |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                           | 8 x HDMI Type A Female (Black)                     |
| Impedance                  | 100 Ω                                                                                                                                    | 100 Ω                                              |
| Max. Distance              | 1.8 m                                                                                                                                    | 1.8 m                                              |
| Video Output               |                                                                                                                                          |                                                    |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                           | 8 x HDMI Type A Female (Black)                     |
| Impedance                  | 100 Ω                                                                                                                                    | 100 Ω                                              |
| Max. Distance              | 15 m                                                                                                                                     | 15 m                                               |
| Video                      |                                                                                                                                          |                                                    |
| Max. Data Rate             | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                           |                                                    |
| Max. Pixel Clock           | 225 MHz                                                                                                                                  |                                                    |
| Compliance                 | HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)                                                           |                                                    |
| Max. Resolution            | Up to 1080p                                                                                                                              |                                                    |
| Max. Distance              | Up to 15 m                                                                                                                               |                                                    |
| Control                    |                                                                                                                                          |                                                    |
| RS-232                     | Connector: 1 x DB-9 Female (Black);<br>Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |                                                    |
| IR                         | 1 x Mini Stereo Jack Female (Black)                                                                                                      |                                                    |
| Ethernet                   | 1 x RJ-45 Female                                                                                                                         |                                                    |
| EDID Settings              | EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)                                                                    |                                                    |
| Power                      |                                                                                                                                          |                                                    |
| Connectors                 | 1 x 3-Prong AC Socket                                                                                                                    | 1 x 3-Prong AC Socket                              |
| Maximum Input Power Rating | 100-240 VAC; 50-60 Hz; 1.0A                                                                                                              | 100-240 VAC; 50-60 Hz; 1.0A                        |
| Consumption                | AC110V: 34.1W; AC220V: 34.4W                                                                                                             | AC110V: 55.9W; AC220V: 55.0W                       |
| Environmental              |                                                                                                                                          |                                                    |
| Operating Temperature      | 0 - 50°C                                                                                                                                 | 0 - 50°C                                           |
| Storage Temperature        | -20 - 60°C                                                                                                                               | -20 - 60°C                                         |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                               | 0 - 80% RH, Non-Condensing                         |
| Physical Properties        |                                                                                                                                          |                                                    |
| Housing                    | Metal                                                                                                                                    | Metal                                              |
| Weight                     | 4.10 kg (9.03 lb)                                                                                                                        | 4.03 kg (8.88 lb)                                  |
| Dimensions (L x W x H)     | 43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)                                                                                       | 43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.) |
| Carton Lot                 | 1 pc                                                                                                                                     | 1 pc                                               |
| Included Accessories       | 1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit                                                                     |                                                    |
| Optional Accessories       | Please refer to 6-14                                                                                                                     |                                                    |

# VM0404HB 4 x 4 True 4K HDMI Matrix Switch

# VM0808HB 8 x 8 True 4K HDMI Matrix Switch



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Front



VM0404HB

VM0808HB

Rear



VM0404HB

VM0808HB

## Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports **True 4K** resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232 control, and Ethernet connections
- Intuitive web GUI control and management
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- Signaling rates up to 6 Gbits for flawless True 4K output
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- Power on Detection – switches to the next powered-on source when one source is powered off
- **ESD protection** for HDMI
- Rack Mountable (1U design)

## Specifications

| Function                   | VM0404HB                                                                                                                                 | VM0808HB                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Video Input                |                                                                                                                                          |                                                   |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                           | 8 x HDMI Type A Female (Black)                    |
| Impedance                  | 100 Ω                                                                                                                                    | 100 Ω                                             |
| Max. Distance              | 1.8 m; 4K@60Hz (4:4:4)                                                                                                                   |                                                   |
| Video Output               |                                                                                                                                          |                                                   |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                           | 8 x HDMI Type A Female (Black)                    |
| Impedance                  | 100 Ω                                                                                                                                    | 100 Ω                                             |
| Max. Distance              | 3m; 4K@60Hz (4:4:4) / 15m; 1920 x 1200                                                                                                   |                                                   |
| Video                      |                                                                                                                                          |                                                   |
| Max. Data Rate             | 18 Gbps (6 Gbps Per Lane)                                                                                                                |                                                   |
| Max. Pixel Clock           | 600 MHz                                                                                                                                  |                                                   |
| Compliance                 | HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)                                                       |                                                   |
| Max. Resolution            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)                                                                                           |                                                   |
| Control                    |                                                                                                                                          |                                                   |
| RS-232                     | Connector: 1 x DB-9 Female (Black);<br>Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |                                                   |
| IR                         | 1 x Mini Stereo Jack Female (Black)                                                                                                      |                                                   |
| Ethernet                   | 1 x RJ-45 Female                                                                                                                         |                                                   |
| EDID Settings              | EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)                                                                   |                                                   |
| Power                      |                                                                                                                                          |                                                   |
| Connectors                 | 1 x 3-Prong AC Socket                                                                                                                    | 1 x 3-Prong AC Socket                             |
| Maximum Input Power Rating | 100-240 VAC; 50-60 Hz; 1.0A                                                                                                              | 100-240 VAC; 50-60 Hz; 1.0A                       |
| Consumption                | AC110V: 17.8W; AC220V: 17.6W                                                                                                             | AC110V: 38.1W; AC220V: 37.8W                      |
| Environmental              |                                                                                                                                          |                                                   |
| Operating Temperature      | 0 - 40°C                                                                                                                                 | 0 - 40°C                                          |
| Storage Temperature        | -20 - 60°C                                                                                                                               | -20 - 60°C                                        |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                               | 0 - 80% RH, Non-Condensing                        |
| Physical Properties        |                                                                                                                                          |                                                   |
| Housing                    | Metal                                                                                                                                    | Metal                                             |
| Weight                     | 2.47 kg (5.44 lb)                                                                                                                        | 3.99 kg (8.79 lb)                                 |
| Dimensions (L x W x H)     | 43.72 x 16.28 x 4.40 cm (17.21 x 6.41 x 1.73 in.)                                                                                        | 43.24 x 26.23 x 4.40 cm (17.02 x 10.3 x 1.73 in.) |
| Carton Lot                 | 1 pc                                                                                                                                     | 1 pc                                              |
| Included Accessories       | 1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit                                                                     |                                                   |
| Optional Accessories       | Please refer to 6-14                                                                                                                     |                                                   |



## VM0404HA 4 x 4 4K HDMI Matrix Switch

## VM0808HA 8 x 8 4K HDMI Matrix Switch

PRO



(VM0808HA)



### Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 control
- Intuitive web GUI control via Ethernet connections (VM0808HA)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- Supports Dolby TrueHD and DTS HD Master audio
- Signaling rates up to 3.4 Gbits for flawless 4K output
- HDMI (3D, Deep Color, 4K); HDCP 1.4/2.2 (VM0404HA/VM0808HA) compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- **ESD protection** for HDMI
- Rack Mountable (1U design)

### Specifications

| Function                   | VM0404HA                                                                                                                                 | VM0808HA                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Video Input                |                                                                                                                                          |                                                                           |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                           | 8 x HDMI Type A Female (Black)                                            |
| Impedance                  | 100 Ω                                                                                                                                    | 100 Ω                                                                     |
| Max. Distance              | 1.8 m                                                                                                                                    | 1.8 m                                                                     |
| Video Output               |                                                                                                                                          |                                                                           |
| Interfaces                 | 4 x HDMI Type A Female (Black)                                                                                                           | 8 x HDMI Type A Female (Black)                                            |
| Impedance                  | 100 Ω                                                                                                                                    | 100 Ω                                                                     |
| Max. Distance              | 15 m                                                                                                                                     | 15 m                                                                      |
| Video                      |                                                                                                                                          |                                                                           |
| Max. Data Rate             | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                            |                                                                           |
| Max. Pixel Clock           | 340 MHz                                                                                                                                  |                                                                           |
| Compliance                 | HDCP 1.4 Compatible                                                                                                                      | HDCP 2.2 Compatible                                                       |
|                            | HDMI (3D, 4K, Deep Color); Consumer Electronics Control (CEC)                                                                            |                                                                           |
| Max. Resolution            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                                                 |                                                                           |
| Max. Distance              | Up to 15 m                                                                                                                               |                                                                           |
| Control                    |                                                                                                                                          |                                                                           |
| USB                        | 1 x Micro USB for F/W upgrade                                                                                                            | N/A                                                                       |
| RS-232                     | Connector: 1 x DB-9 Female (Black);<br>Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |                                                                           |
| IR                         | 1 x Mini Stereo Jack Female (Black)                                                                                                      |                                                                           |
| Ethernet                   | N/A                                                                                                                                      | 1 x RJ-45 Female                                                          |
| EDID Settings              | EDID Mode: Default / Port1 / Remix                                                                                                       | EDID Mode: Default / Port 1 / Remix / Customized<br>(EDID Wizard Support) |
| Power                      |                                                                                                                                          |                                                                           |
| Connectors                 | 1 x DC Jack (Black)                                                                                                                      | 1 x 3-Prong AC Socket                                                     |
| Maximum Input Power Rating | N/A                                                                                                                                      | 100-240 VAC; 50-60 Hz; 1.0A                                               |
| Consumption                | DC5V: 9.62W                                                                                                                              | AC110V: 24W; AC220V: 24.4W                                                |
| Environmental              |                                                                                                                                          |                                                                           |
| Operating Temperature      | 0 - 40°C                                                                                                                                 | 0 - 40°C                                                                  |
| Storage Temperature        | -20 - 60°C                                                                                                                               | -20 - 60°C                                                                |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                               | 0 - 80% RH, Non-Condensing                                                |
| Physical Properties        |                                                                                                                                          |                                                                           |
| Housing                    | Metal                                                                                                                                    | Metal                                                                     |
| Weight                     | 2.02 kg (4.45 lb)                                                                                                                        | 3.86 kg (8.5 lb)                                                          |
| Dimensions (L x W x H)     | 43.72 x 16.29 x 4.40 cm (17.21 x 6.41 x 1.73 in.)                                                                                        | 43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)                        |
| Carton Lot                 | 3 pcs                                                                                                                                    | 1 pc                                                                      |
| Included Accessories       | 1x Power Adapter (VM0404HA); 1x Power Cord (VM0808HA); 1x IR Remote Control; 1x IR Receiver;<br>1x Mounting Kit                          |                                                                           |
| Optional Accessories       | Please refer to 6-14                                                                                                                     |                                                                           |

# VM0202H 2 x 2 4K HDMI Matrix Switch **PRO**



Front



Rear



## Features

- 2 x 2 HDMI I/O connection
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Configuration and control via front-panel pushbuttons, IR remote, and RS-232
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- HDMI (3D, Deep Color, 4k); HDCP 1.4 Compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- **ESD protection** for HDMI
- Rack-mountable (1U design)

## Specifications

| Function                    | VM0202H                                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                        |
| Interfaces                  | 2 x HDMI Type A Female (Black)                                                                                                                         |
| Impedance                   | 100 Ω                                                                                                                                                  |
| Max. Distance               | 1.8 m                                                                                                                                                  |
| <b>Video Output</b>         |                                                                                                                                                        |
| Interfaces                  | 2 x HDMI Type A Female (Black)                                                                                                                         |
| Impedance                   | 100 Ω                                                                                                                                                  |
| Max. Distance               | 15 m                                                                                                                                                   |
| <b>Video</b>                |                                                                                                                                                        |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                          |
| Max. Pixel Clock            | 340 MHz                                                                                                                                                |
| Compliance                  | HDMI (3D, 4K, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)                                                                     |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                                                               |
| Max. Distance               | Up to 15 m                                                                                                                                             |
| <b>Control</b>              |                                                                                                                                                        |
| USB                         | 1 x Micro USB for FW upgrade                                                                                                                           |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black);<br><b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                    |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default / Port1 / Remix                                                                                                              |
| <b>Power</b>                |                                                                                                                                                        |
| Connectors                  | 1 x DC Jack (Black)                                                                                                                                    |
| Consumption                 | DC5V: 4.3W                                                                                                                                             |
| <b>Environmental</b>        |                                                                                                                                                        |
| Operating Temperature       | 0 - 40°C                                                                                                                                               |
| Storage Temperature         | -20 - 60°C                                                                                                                                             |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                             |
| <b>Physical Properties</b>  |                                                                                                                                                        |
| Housing                     | Metal                                                                                                                                                  |
| Weight                      | 0.58 kg (1.28 lb)                                                                                                                                      |
| Dimensions (L x W x H)      | 20.00 x 7.60 x 4.20 cm (7.87 x 2.99 x 1.65 in.)                                                                                                        |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                  |
| <b>Included Accessories</b> | 1x Power Adapter; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit                                                                                |
| <b>Optional Accessories</b> | Please refer to 6-14                                                                                                                                   |

# VM5404D 4 x 4 DVI Matrix Switch with Scaler

# VM5808D 8 x 8 DVI Matrix Switch with Scaler



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PRO



## Features

- 4 x 4 or 8 x 8 DVI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232, and Ethernet connections
- Intuitive configuration via web-based GUI
- Extendable IR transmission via IR extension cable
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions\*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI\*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Rack-mountable (1U design)

Note: \*If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.



## Specifications

| Function                    | VM5404D                                                                                                                                                | VM5808D                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                        |                                                    |
| Interfaces                  | 4 x DVI-D Female (White)                                                                                                                               | 8 x DVI-D Female (White)                           |
| Impedance                   | 100 Ω                                                                                                                                                  | 100 Ω                                              |
| Max. Distance               | 1.8 m                                                                                                                                                  | 1.8 m                                              |
| <b>Video Output</b>         |                                                                                                                                                        |                                                    |
| Interfaces                  | 4 x DVI-D Female (White)                                                                                                                               | 8 x DVI-D Female (White)                           |
| Impedance                   | 100 Ω                                                                                                                                                  | 100 Ω                                              |
| <b>Video</b>                |                                                                                                                                                        |                                                    |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                         |                                                    |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                |                                                    |
| Compliance                  | HDCP 1.4 Compatible                                                                                                                                    |                                                    |
| Max. Resolution             | Up to 1920 x 1200                                                                                                                                      |                                                    |
| Max. Distance               | Up to 5m                                                                                                                                               |                                                    |
| <b>Control</b>              |                                                                                                                                                        |                                                    |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black);<br><b>Baud Rate and Protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No |                                                    |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                    |                                                    |
| Ethernet                    | 1 x RJ-45 Female (Black)                                                                                                                               |                                                    |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default / Port 1/ Remix / Customized                                                                                                 |                                                    |
| <b>Power</b>                |                                                                                                                                                        |                                                    |
| Connectors                  | 1 x 3-Prong AC Socket                                                                                                                                  | 1 x 3-Prong AC Socket                              |
| Maximum Input Power Rating  | 100-240VAC; 50-60Hz; 1.0A                                                                                                                              | 100-240VAC; 50-60Hz; 1.0A                          |
| Consumption                 | AC110V: 34.1W; AC220V: 34.4W                                                                                                                           | AC110V: 55.9W; AC220V: 55W                         |
| <b>Environmental</b>        |                                                                                                                                                        |                                                    |
| Operating Temperature       | 0 - 50°C                                                                                                                                               | 0 - 50°C                                           |
| Storage Temperature         | -20 - 60°C                                                                                                                                             | -20 - 60°C                                         |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                             | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b>  |                                                                                                                                                        |                                                    |
| Housing                     | Metal                                                                                                                                                  | Metal                                              |
| Weight                      | 3.50 kg (7.71 lb)                                                                                                                                      | 4.25 kg (9.36 lb)                                  |
| Dimensions (L x W x H)      | 43.24 x 25.98 x 4.40 cm (17.02 x 10.23 x 1.73 in.)                                                                                                     | 43.24 x 25.98 x 4.40 cm (17.02 x 10.23 x 1.73 in.) |
| <b>Carton Lot</b>           | 1 pc                                                                                                                                                   | 1 pc                                               |
| <b>Included Accessories</b> | 1x Power Cord: 1x IR Remote Control: 1x IR Receiver: 1x Mounting Kit                                                                                   |                                                    |

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| DVI-D cable*               | 2L-7D03DD (3 m)  | 12-6     |
| IR Receiver Cable (38 KHz) | 2XRT-0003G       | 13-2     |
| IR Remote Control          | 2XRT-0106G       | 13-2     |

\*Cables with different lengths are available, please refer to 12-6.

## VM0404 4 x 4 VGA/Audio Matrix Switch **PRO**



### Features

- 4 x 4 VGA/Audio I/O connections with audio
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 connections
- Long distance transmission up to 30m
- Superior video quality – up to 1920 x 1440; VGA, SVGA, XGA, SXGA, UXGA, and WUXGA (1920 x 1200)
- Supports up to 300 MHz bandwidth for high performance video
- Built-in bi-directional RS-232 serial port for high-end system control
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Independent switching of audio and video sources
- Rack-mountable (1U design)

### Specifications

| Function                    | VM0404                                                                                                                                                 |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                        |
| Interfaces                  | 4 x HDB-15 Male (Blue)                                                                                                                                 |
| Impedance                   | 75 Ω                                                                                                                                                   |
| Max. Distance               | 1.8 m                                                                                                                                                  |
| <b>Video Output</b>         |                                                                                                                                                        |
| Interfaces                  | 4 x HDB-15 Female (Blue)                                                                                                                               |
| Impedance                   | 75 Ω                                                                                                                                                   |
| Max. Distance               | 30 m                                                                                                                                                   |
| <b>Video</b>                |                                                                                                                                                        |
| Max. Bandwidth              | 300 MHz                                                                                                                                                |
| Max. Resolution             | Up to 1920 x 1440                                                                                                                                      |
| Max. Distance               | Up to 30 m                                                                                                                                             |
| <b>Audio</b>                |                                                                                                                                                        |
| Input                       | 4 x Mini Stereo Jack Female (Green)                                                                                                                    |
| Output                      |                                                                                                                                                        |
| <b>Control</b>              |                                                                                                                                                        |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black);<br><b>Baud rate and protocol:</b> Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                    |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Mode: Default / Port1 / Remix / Auto                                                                                                 |
| <b>Power</b>                |                                                                                                                                                        |
| Connectors                  | 1 x DC Jack (Black)                                                                                                                                    |
| Consumption                 | DC5V: 2.54W                                                                                                                                            |
| <b>Environmental</b>        |                                                                                                                                                        |
| Operating Temperature       | 0 - 50°C                                                                                                                                               |
| Storage Temperature         | -20 - 60°C                                                                                                                                             |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                             |
| <b>Physical Properties</b>  |                                                                                                                                                        |
| Housing                     | Metal                                                                                                                                                  |
| Weight                      | 0.87 kg (1.92 lb)                                                                                                                                      |
| Dimensions (L x W x H)      | 26.00 x 7.61 x 4.40 cm (10.24 x 3 x 1.73 in.)                                                                                                          |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                  |
| <b>Included Accessories</b> | 1x Power Adapter                                                                                                                                       |

### Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| VGA / Audio Cable          | 2L-2402A         | 12-6     |
| IR Receiver Cable (38 KHz) | 2XRT-0003G       | 13-2     |
| IR Remote Control          | 2XRT-0106G       | 13-2     |
| Mounting Kit               | 2X-020G          | 13-2     |

## VS0202 2 x 2 VGA/Audio Matrix Switch



Front



Rear



### Features

- 2 x 2 VGA I/O connections with audio
- Each output can toggle between 2 inputs via front-panel pushbuttons
- Audio enabled
- Duplicate and enhance video signals to up to 30 m (max.)
- Expandable: Cascade to ATEN's video splitters to support hundreds of video displays
- Video Bandwidth up to 200 MHz

### Specifications

| Function                    | VS0202                                       |
|-----------------------------|----------------------------------------------|
| <b>Video Input</b>          |                                              |
| Interfaces                  | 2 x HDB-15 Male (Blue)                       |
| Impedance                   | 75 $\Omega$                                  |
| Max. Distance               | 1.8 m                                        |
| <b>Video Output</b>         |                                              |
| Interfaces                  | 2 x HDB-15 Female (Blue)                     |
| Impedance                   | 75 $\Omega$                                  |
| <b>Video</b>                |                                              |
| Max. Bandwidth              | 200 MHz                                      |
| Max. Resolution             | Up to 1920 x 1200                            |
| Max. Distance               | Up to 30 m                                   |
| <b>Audio</b>                |                                              |
| Input                       | 2 x Mini Stereo Jack Female (Green)          |
| Output                      | 2 x Mini Stereo Jack Female (Green)          |
| <b>Power</b>                |                                              |
| Connectors                  | 1 x DC Jack                                  |
| Consumption                 | DC5.3V: 2.43W                                |
| <b>Environmental</b>        |                                              |
| Operating Temperature       | 0 - 50°C                                     |
| Storage Temperature         | -20 - 60°C                                   |
| Humidity                    | 0 - 80% RH, Non-Condensing                   |
| <b>Physical Properties</b>  |                                              |
| Housing                     | Metal                                        |
| Weight                      | 0.47 kg ( 1.04 lb )                          |
| Dimensions (L x W x H)      | 13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.) |
| <b>Carton Lot</b>           | 20 pcs                                       |
| <b>Included Accessories</b> | 1x VGA/Audio Cable (1.8m); 1x Power Adapter  |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| VGA / Audio Cable | 2L-2402A         | 12-6     |

## Optional Accessories

### VM3404H / VM3909H

| Description                                    | Part No. / Spec. | Page No. |
|------------------------------------------------|------------------|----------|
| HDMI Cable*                                    | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable                            | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)                     | 2X-EA12          | 13-1     |
| IR Receiver Cable (38 KHz)                     | 2XRT-0003G       | 13-2     |
| Full Range IR Receiver (30-56 KHz) for channel | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56 KHz)              | 2XRT-0004G       | 13-2     |
| IR Remote Control (for VM3404H Only)           | 2XRT-0106G       | 13-2     |

### VM6404H / VM5404H / VM5808H / VM0404HB / VM0808HB / VM0404HA / VM0808HA

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |
| IR Remote Control          | 2XRT-0106G       | 13-2     |
| IR Receiver Cable (38 KHz) | 2XRT-0003G       | 13-2     |

### VM6809H / VM51616H

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

### VM0202H

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| IR Remote Control          | 2XRT-0101G       | 13-2     |
| IR Receiver Cable (38 KHz) | 2XRT-0003G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.



# Video Switches

ATEN video switches allow you to conveniently display the video output of one to multiple high-resolution computer or source devices on a single or dual monitors. All models offer easy source selection via pushbuttons, RS-232, or IR remote control, meaning you never have to reach behind the monitor. With support for the full range of video standards and many models with audio functionality, ATEN video switches are the perfect choice for meeting rooms, laboratories, research centers, information management centers, and home theater applications.



- **Quick and Easy Port Selection**

Quickly and easily select the desired media source device among multiple sources with pushbuttons located on the device and with an IR remote control. The remote control lets you select source devices without having to get up and move to the switch to perform the selection with the pushbuttons.

- **Flexible Deployment**

By combining the switch with an external IR receiver you can locate it close to the media source. This provides greater video quality by keeping the cable distance shorter, while allowing you to control the media selection from a more comfortable location.

- **Outstanding Multimedia Support**

Audio signals from the source devices are transmitted together with the video – eliminating the need for a separate audio installation for each source and delivering an outstanding AV experience when working with modern multimedia applications.

- **Control System Integration**

The built-in RS-232 serial port and IR allows you to effortlessly integrate the ATEN Control System or your own control system, and customize the control process according to your needs. RS-232 and IR support also gives you the ability to integrate serial devices – such as barcode scanners, POS terminals, kiosk touch screens and more – as part of the installation.

- **Auto Switching**

The Auto Switching function enables automatic switches between selected ports with priority settings when the source device is connected. There are two types of priority settings that can be configured with Auto Switching: Auto, and Next Switch Priority. Auto places the priority on a particular port while Next Switch Priority places priority on the next port with a new source connected to it.

Note: 1.The features highlighted above are not available on all products. Please refer to each product page for more details.  
2.Product information is subject to change without prior notice.



## Specifications at a Glance

| Interface          | HDMI            |                 |                 |          |                                    |          |          |
|--------------------|-----------------|-----------------|-----------------|----------|------------------------------------|----------|----------|
| Model              | VS0801HB        | VS481C          | VS481B          | VS0801H  | VS482                              | VS481A   | VS381    |
| Inputs to Outputs  | 8 to 1          | 4 to 1          | 4 to 1          | 8 to 1   | 4 to 2                             | 4 to 1   | 3 to 1   |
| Max. Resolution    | 4K@60Hz (4:4:4) | 4K@60Hz (4:4:4) | 4K@60Hz (4:2:0) | 1080p    | 1080p                              | 1080p    | 1080p    |
| HDR                | •               | •               | N/A             | N/A      | N/A                                | N/A      | N/A      |
| HDCP               | 2.2             | 2.2             | 2.2             | 1.4      | 1.4                                | 1.4      | 1.4      |
| Audio              | • (HDMI)        | • (HDMI)        | • (HDMI)        | • (HDMI) | • (HDMI, Stereo, Optical, Coaxial) | • (HDMI) | • (HDMI) |
| Auto Switch        | •               | •               | •               | •        | •                                  | N/A      | N/A      |
| Power-on Detection | •               | •               | N/A             | •        | •                                  | •        | N/A      |
| RS-232 Control     | •               | •               | •               | •        | •                                  | •        | N/A      |
| IR Control         | •               | •               | •               | •        | •                                  | •        | •        |

| Interface          | DVI             | VGA         |             |                 |                 |             |
|--------------------|-----------------|-------------|-------------|-----------------|-----------------|-------------|
| Model              | VS261 / VS461   | VS881       | VS0801A     | VS0201 / VS0401 | VS291 / VS491   | VS201       |
| Inputs to Outputs  | 2 to 1 / 4 to 1 | 8 to 1      | 8 to 1      | 2 to 1 / 4 to 1 | 2 to 1 / 4 to 1 | 2 to 1      |
| Max. Resolution    | 1920 x 1200     | 1920 x 1440 | 1920 x 1440 | 1920 x 1440     | 1920 x 1440     | 1920 x 1440 |
| HDCP               | 1.4             | N/A         | N/A         | N/A             | N/A             | N/A         |
| Audio              | •               | N/A         | •           | •               | N/A             | N/A         |
| Auto Switch        | N/A             | •           | •           | •               | N/A             | •           |
| Power-on Detection | •               | N/A         | •           | N/A             | N/A             | N/A         |
| RS-232 Control     | N/A             | N/A         | •           | •               | N/A             | N/A         |
| IR Control         | •               | •           | •           | • (Optional)    | N/A             | N/A         |

## VS0801HB 8-Port True 4K HDMI Switch



Front



Rear



### Features

- 8 x 1 HDMI I/O connections
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – **True 4K** resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

### Specifications

| Function                    | VS0801HB                                                                                                                                                  |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                           |
| Interfaces                  | 8 x HDMI Type A Female (Black)                                                                                                                            |
| Impedance                   | 100 $\Omega$                                                                                                                                              |
| Max. Distance               | 3 m                                                                                                                                                       |
| <b>Video Output</b>         |                                                                                                                                                           |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                            |
| Impedance                   | 100 $\Omega$                                                                                                                                              |
| Max. Distance               | 3 m                                                                                                                                                       |
| <b>Video</b>                |                                                                                                                                                           |
| Max. Data Rate              | 18 Gbps (6 Gbps Per Lane)                                                                                                                                 |
| Max. Pixel Clock            | 600 MHz                                                                                                                                                   |
| Compliance                  | HDMI 2.0 (3D, Deep Color, 4K)<br>HDCP 2.2<br>Consumer Electronics Control (CEC)                                                                           |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)                                                                                                            |
| <b>Control</b>              |                                                                                                                                                           |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                       |
| <b>Power</b>                |                                                                                                                                                           |
| Connectors                  | 1 x DC Jack (with locking)                                                                                                                                |
| Consumption                 | DC5.3V: 3.73W                                                                                                                                             |
| <b>Environmental</b>        |                                                                                                                                                           |
| Operating Temperature       | 0 - 40°C                                                                                                                                                  |
| Storage Temperature         | -20 - 60°C                                                                                                                                                |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                |
| <b>Physical Properties</b>  |                                                                                                                                                           |
| Housing                     | Metal                                                                                                                                                     |
| Weight                      | 2.14 kg (4.72 lb)                                                                                                                                         |
| Dimensions (L x W x H)      | 43.72 x 15.83 x 4.40 cm (17.21 x 6.23 x 1.73 in.)                                                                                                         |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                                     |
| <b>Included Accessories</b> | 1x IR Remote Control; 1x IR Receiver; 1x Power Adapter; 1x Rack Mounting Kit                                                                              |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| HDMI Cable*       | 2L-7D02H-1 (2 m) | 12-5     |
| IR Receiver Cable | 2XRT-0003G       | 13-2     |
| IR Remote Control | 2XRT-0007G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.

## VS481c 4-Port True 4K HDMI Switch PHD



Front



Rear



### Features

- 4 x 1 HDMI I/O connections
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – **True 4K** resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- Bi-directional RS-232 serial port for high-end system control

### Specifications

| Function                    | VS481C                                                                                                                                                          |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                 |
| Interfaces                  | 4 x HDMI Type A Female (Black)                                                                                                                                  |
| Impedance                   | 100 Ω                                                                                                                                                           |
| Max. Distance               | 3m                                                                                                                                                              |
| <b>Video Output</b>         |                                                                                                                                                                 |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                  |
| Impedance                   | 100 Ω                                                                                                                                                           |
| Max. Distance               | 3m                                                                                                                                                              |
| <b>Video</b>                |                                                                                                                                                                 |
| Max. Data Rate              | 18 Gbps (6 Gbps Per Lane)                                                                                                                                       |
| Max. Pixel Clock            | 600 MHz                                                                                                                                                         |
| Compliance                  | HDMI 2.0 (3D, Deep Color, 4K)<br>HDCP 2.2<br>Consumer Electronics Control (CEC)                                                                                 |
| Max. Resolution             | 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)                                                                                                                        |
| <b>Control</b>              |                                                                                                                                                                 |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate &amp; Protocol:</b><br>Baud Rate: 19200 / Data Bits: 8 / Stop Bits: 1 / Parity: NO / Flow Control: NO |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                             |
| <b>Power</b>                |                                                                                                                                                                 |
| Connectors                  | 1 x DC Jack (with locking)                                                                                                                                      |
| Consumption                 | DC5V: 0.294W                                                                                                                                                    |
| <b>Environmental</b>        |                                                                                                                                                                 |
| Operating Temperature       | 0 - 40 °C                                                                                                                                                       |
| Storage Temperature         | -20 - 60 °C                                                                                                                                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                      |
| <b>Physical Properties</b>  |                                                                                                                                                                 |
| Housing                     | Metal                                                                                                                                                           |
| Weight                      | 0.47 kg (1.04 lb)                                                                                                                                               |
| Dimensions (L x W x H)      | 20.00 x 8.21 x 2.50 cm ( 7.87 x 3.23 x 0.98 in.)                                                                                                                |
| <b>Carton Lot</b>           | 10 pcs                                                                                                                                                          |
| <b>Included Accessories</b> | 1x Power Adapter; 1x IR Remote Control; 1x HDMI Cable                                                                                                           |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| HDMI Cable*       | 2L-7D02H-1 (2 m) | 12-5     |
| IR Receiver Cable | 2XRT-0003G       | 13-2     |
| IR Remote Control | 2XRT-0101G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.

## VS481B 4-Port 4K HDMI Switch



Front



Rear



### Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – 4K resolutions of 4096 x 2160 @ 60 Hz (4:2:0)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- Bi-directional RS-232 serial port for high-end system control

### Specifications

| Function                    | VS481B                                                                                                                                                   |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                          |
| Interfaces                  | 4 x HDMI Type A Female (Black)                                                                                                                           |
| Impedance                   | 100 Ω                                                                                                                                                    |
| Max. Distance               | 1.8 m                                                                                                                                                    |
| <b>Video Output</b>         |                                                                                                                                                          |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                           |
| Impedance                   | 100 Ω                                                                                                                                                    |
| Max. Distance               | 15 m                                                                                                                                                     |
| <b>Video</b>                |                                                                                                                                                          |
| Max. Data Rate              | 9 Gbps (3 Gbps Per Lane)                                                                                                                                 |
| Max. Pixel Clock            | 300 MHz                                                                                                                                                  |
| Compliance                  | HDMI (3D, Deep Color, 4K)<br>HDCP 2.2 Compatible<br>Consumer Electronics Control (CEC)                                                                   |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                                                                 |
| Max. Distance               | Up to 15 m                                                                                                                                               |
| <b>Control</b>              |                                                                                                                                                          |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                      |
| <b>Power</b>                |                                                                                                                                                          |
| Connectors                  | Connector: 1 x DC Jack                                                                                                                                   |
| Consumption                 | DC5V: 1.76W                                                                                                                                              |
| <b>Environmental</b>        |                                                                                                                                                          |
| Operating Temperature       | 0 - 50°C                                                                                                                                                 |
| Storage Temperature         | -20 - 60°C                                                                                                                                               |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                               |
| <b>Physical Properties</b>  |                                                                                                                                                          |
| Housing                     | Metal                                                                                                                                                    |
| Weight                      | 0.48 kg ( 1.06 lb )                                                                                                                                      |
| Dimensions (L x W x H)      | 20.00 x 8.25 x 2.50 cm (7.87 x 3.25 x 0.98 in.)                                                                                                          |
| <b>Carton Lot</b>           | 10 pcs                                                                                                                                                   |
| <b>Included Accessories</b> | 1x HDMI Cable; 1x IR Remote Control; 1x Power Adapter                                                                                                    |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| HDMI Cable*       | 2L-7D02H-1 (2 m) | 12-5     |
| IR Receiver Cable | 2XRT-0003G       | 13-2     |
| IR Remote Control | 2XRT-0101G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.

# VS0801H 8-Port HDMI Switch PHD



Front



Rear



## Features

- 8 x 1 HDMI I/O connections
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA, and WUXGA (1920x1200)
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

## Specifications

| Function                    | VS0801H                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                          |
| Interfaces                  | 8 x HDMI Type A Female (Black)                                                                                                                           |
| Impedance                   | 100 $\Omega$                                                                                                                                             |
| Max. Distance               | 1.8 m                                                                                                                                                    |
| <b>Video Output</b>         |                                                                                                                                                          |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                           |
| Impedance                   | 100 $\Omega$                                                                                                                                             |
| <b>Video</b>                |                                                                                                                                                          |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                           |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                  |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP 1.4 Compatible<br>Consumer Electronics Control (CEC)                                                                       |
| Max. Resolution             | Up to 1080p                                                                                                                                              |
| Max. Distance               | Up to 15 m                                                                                                                                               |
| <b>Control</b>              |                                                                                                                                                          |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| <b>Power</b>                |                                                                                                                                                          |
| Connectors                  | 1 x DC Jack (with locking)                                                                                                                               |
| Consumption                 | DC5.3V: 3.73W                                                                                                                                            |
| <b>Environmental</b>        |                                                                                                                                                          |
| Operating Temperature       | 0 - 50°C                                                                                                                                                 |
| Storage Temperature         | -20 - 60°C                                                                                                                                               |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                               |
| <b>Physical Properties</b>  |                                                                                                                                                          |
| Housing                     | Metal                                                                                                                                                    |
| Weight                      | 1.75 kg ( 3.85 lb )                                                                                                                                      |
| Dimensions (L x W x H)      | 43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)                                                                                                         |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                                    |
| <b>Included Accessories</b> | 1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit                                                                                                  |

## Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| HDMI Cable*       | 2L-7D02H-1 (2 m) | 12-5     |
| IR Remote Control | 2XRT-0007G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.

# VS482 4-Port HDMI Switch with Dual Output

PRO

Auto Switching

Instant Switch

Digital Audio Toslink

HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE

A/V In  
HDMI

A/V Out  
HDMI

RS-232  
Control

IR Remote  
Control

Dual View

OSD

ARC  
Audio Return Channel

EDID

Front



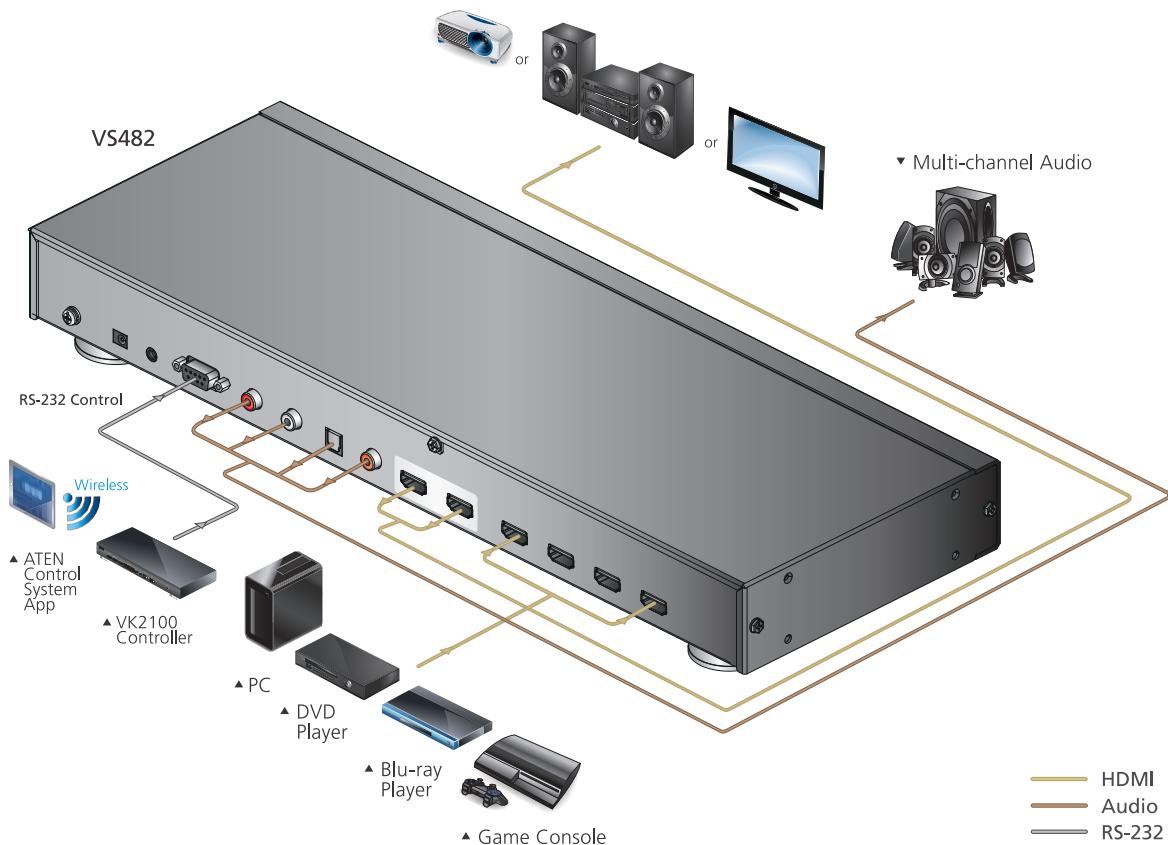
Rear



## Features

- 4 x 2 HDMI I/O connections
- HDMI (3D, Audio Return Channel, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); up to WUXGA (1920x1200)
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **On-Screen Display (OSD)** for system configuration settings and information display
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- **Audio Return Channel (ARC)** – audio from an HDMI source can be sent to an audio/video receiver by connecting an HDMI cable to the ARC port
- HDMI audio can be extracted to stereo audio and digital audio (optical/coaxial) outputs
- Rack-mountable (1U)

## Setup > VS482





## Specifications

| Function                    | VS482                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                             |
| Interfaces                  | 4 x HDMI Type A Female (Black)                                                                                                                              |
| Impedance                   | 100 $\Omega$                                                                                                                                                |
| Max. Distance               | 1.8 m                                                                                                                                                       |
| <b>Video Output</b>         |                                                                                                                                                             |
| Interfaces                  | 2 x HDMI Type A Female (Black)                                                                                                                              |
| Impedance                   | 100 $\Omega$                                                                                                                                                |
| Max. Distance               | 15 m                                                                                                                                                        |
| <b>Video</b>                |                                                                                                                                                             |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                              |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                     |
| Compliance                  | HDMI (3D, Audio Return Channel, Deep Color)<br>HDCP 1.4 Compatible<br>Consumer Electronics Control (CEC)                                                    |
| Max. Resolution             | Up to 1080p                                                                                                                                                 |
| Max. Distance               | Up to 15 m                                                                                                                                                  |
| <b>Audio</b>                |                                                                                                                                                             |
| Input                       | 4 x HDMI Type A Female (Black)                                                                                                                              |
| Output                      | Analog: 2 x RCA (Red / White)<br>Digital: 1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange)                                             |
| <b>Control</b>              |                                                                                                                                                             |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8,<br>Stop Bits:1, Parity: No, Flow Control: No |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                         |
| <b>EDID Settings</b>        | EDID Mode: Default / Port1 / Auto                                                                                                                           |
| <b>Power</b>                |                                                                                                                                                             |
| Connectors                  | 1 x DC Jack                                                                                                                                                 |
| Consumption                 | DC5.3V: 5.74W                                                                                                                                               |
| <b>Environmental</b>        |                                                                                                                                                             |
| Operating Temperature       | 0 - 50°C                                                                                                                                                    |
| Storage Temperature         | -20 - 60°C                                                                                                                                                  |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                  |
| <b>Physical Properties</b>  |                                                                                                                                                             |
| Housing                     | Metal                                                                                                                                                       |
| Weight                      | 2.17 kg ( 4.78 lb )                                                                                                                                         |
| Dimensions (L x W x H)      | 43.72 x 15.86 x 4.40 cm (17.21 x 6.24 x 1.73 in.)                                                                                                           |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                                       |
| <b>Included Accessories</b> | 1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit                                                                                                     |

## Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| HDMI Cable*       | 2L-7D02H-1 (2 m) | 12-5     |
| IR Receiver Cable | 2XRT-0003G       | 13-2     |
| IR Remote Control | 2XRT-0010G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.

## VS481A 4-Port HDMI Switch



Front



Rear



### Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200)
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- Bi-directional RS-232 serial port for high-end system control

### Specifications

| Function                    | VS481A                                                                                                                                                    |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                           |
| Interfaces                  | 4 x HDMI Type A Female (Black)                                                                                                                            |
| Impedance                   | 100 $\Omega$                                                                                                                                              |
| Max. Distance               | 1.8 m                                                                                                                                                     |
| <b>Video Output</b>         |                                                                                                                                                           |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                            |
| Impedance                   | 100 $\Omega$                                                                                                                                              |
| <b>Video</b>                |                                                                                                                                                           |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                            |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                   |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP 1.4 Compatible<br>Consumer Electronics Control (CEC)                                                                        |
| Max. Resolution             | Up to 1080p                                                                                                                                               |
| Max. Distance               | Up to 15 m                                                                                                                                                |
| <b>Control</b>              |                                                                                                                                                           |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No |
| <b>Power</b>                |                                                                                                                                                           |
| Connectors                  | 1 x DC Jack                                                                                                                                               |
| Consumption                 | DC5.3V: 1.87W                                                                                                                                             |
| <b>Environmental</b>        |                                                                                                                                                           |
| Operating Temperature       | 0 - 50°C                                                                                                                                                  |
| Storage Temperature         | -20 - 60°C                                                                                                                                                |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                |
| <b>Physical Properties</b>  |                                                                                                                                                           |
| Housing                     | Metal                                                                                                                                                     |
| Weight                      | 0.47 kg ( 1.04 lb )                                                                                                                                       |
| Dimensions (L x W x H)      | 20.00 x 8.27 x 2.50 cm (7.87 x 3.26 x 0.98 in.)                                                                                                           |
| <b>Carton Lot</b>           | 10 pcs                                                                                                                                                    |
| <b>Included Accessories</b> | 1x HDMI Cable; 1x IR Remote Control; 1x Power Adapter                                                                                                     |

### Optional Accessories

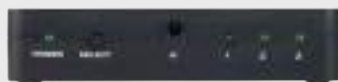
| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| HDMI Cable*       | 2L-7D02H-1 (2 m) | 12-5     |
| IR Remote Control | 2XRT-0101G       | 13-2     |

\*Cables with different lengths are available; please refer to 12-5.

## VS381 3-Port HDMI Switch



Front



Rear



### Features

- 3 x 1 HDMI I/O connections
- Video switching between input sources via front-panel pushbuttons or IR remote control
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); PC resolutions of VGA, SVGA, XGA, SXGA, and WUXGA (1920x1200)
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Support Dolby TrueHD and DTS Master Audio

### Specifications

| Function                    | VS381                                          |
|-----------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                |
| Interfaces                  | 3 x HDMI Type A Female (Black)                 |
| Impedance                   | 100 $\Omega$                                   |
| Max. Distance               | 1.8 m                                          |
| <b>Video Output</b>         |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | 100 $\Omega$                                   |
| <b>Video</b>                |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                        |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP 1.4 Compatible   |
| Max. Resolution             | Up to 1080p                                    |
| Max. Distance               | Up to 15 m                                     |
| <b>Control</b>              |                                                |
| IR                          | 1 x Mini Stereo Jack Female (Black)            |
| <b>Power</b>                |                                                |
| Connectors                  | 1 x DC Jack                                    |
| Consumption                 | DC5V: 0.69W                                    |
| <b>Environmental</b>        |                                                |
| Operating Temperature       | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                |
| Housing                     | Plastic                                        |
| Weight                      | 0.07 kg ( 0.15 lb )                            |
| Dimensions (L x W x H)      | 9.60 x 5.12 x 2.24 cm (3.78 x 2.02 x 0.88 in.) |
| <b>Carton Lot</b>           | 40 pcs                                         |
| <b>Included Accessories</b> | 1x IR Remote Control                           |

### Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available; please refer to 12-5.

## VS261 / VS461 2/4-Port DVI/Audio Switch



### Features

- 2 x 1 or 4 x 1 DVI I/O connections
- Fully compliant with DVI-Digital and DVI-Analog
- Superior video quality – up to 1920 x 1200
- HDCP compatible
- Video switching via front-panel pushbuttons or IR remote control
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- Audio-enabled

### Specifications

| Function                    | VS261                                           | VS461                                           |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                 |                                                 |
| Interfaces                  | 2 x DVI-I Female (White)                        | 4 x DVI-I Female (White)                        |
| Impedance                   | 100 Ω                                           | 100 Ω                                           |
| Max. Distance               | 1.8 m                                           | 1.8 m                                           |
| <b>Video Output</b>         |                                                 |                                                 |
| Interfaces                  | 1 x DVI-I Female (White)                        | 1 x DVI-I Female (White)                        |
| Impedance                   | 100 Ω                                           | 100 Ω                                           |
| Max. Distance               | 5 m                                             | 5 m                                             |
| <b>Video</b>                |                                                 |                                                 |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                  | 6.75 Gbps (2.25 Gbps Per Lane)                  |
| Max. Pixel Clock            | 225 MHz                                         | 225 MHz                                         |
| Compliance                  | HDCP 1.4 Compatible                             | HDCP 1.4 Compatible                             |
| Max. Resolution             | Up to 1920 x 1200                               | Up to 1920 x 1200                               |
| Max. Distance               | Up to 5 m                                       | Up to 5 m                                       |
| <b>Audio</b>                |                                                 |                                                 |
| Input                       | 4 x Stereo RCA Jack Female (Red/White)          | 8 x Stereo RCA Jack Female (Red/White)          |
| Output                      | 2 x Stereo RCA Jack Female (Red/White)          | 2 x Stereo RCA Jack Female (Red/White)          |
| <b>Power</b>                |                                                 |                                                 |
| Connectors                  | 1 x DC Jack                                     | 1 x DC Jack                                     |
| Consumption                 | DC5.3V: 1.7W                                    | DC5.3V: 4.93 W                                  |
| <b>Environmental</b>        |                                                 |                                                 |
| Operating Temperature       | 0 - 50°C                                        | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                      | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                 |                                                 |
| Housing                     | Metal                                           | Metal                                           |
| Weight                      | 0.50 kg ( 1.1 lb )                              | 0.75 kg ( 1.65 lb )                             |
| Dimensions (L x W x H)      | 14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.) | 21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.) |
| <b>Carton Lot</b>           | 10 pcs                                          | 10 pcs                                          |
| <b>Included Accessories</b> | 1x IR Remote Control; 1x Power Adapter          |                                                 |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| IR Remote Control | 2XRT-0101G       | 13-2     |

## VS881 8-Port VGA Switch with Auto Switching



### Features

- 8 x 1 VGA I/O connections
- Modern concentric design with intuitive connector layout for quick and easy access
- Video switching via pushbuttons or IR remote control
- Automatic incoming signal selection (Auto)
- Extra-thin IR handset design allows easy storage under the unit

### Specifications

| Function                    | VS881                                                                      |
|-----------------------------|----------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                            |
| Interfaces                  | 8 x HDB-15 Male (Blue)                                                     |
| Impedance                   | 75 $\Omega$                                                                |
| Max. Distance               | 1.8 m                                                                      |
| <b>Video Output</b>         |                                                                            |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                   |
| Impedance                   | 75 $\Omega$                                                                |
| Max. Distance               | 10 m                                                                       |
| <b>Video</b>                |                                                                            |
| Max. Bandwidth              | 300 MHz                                                                    |
| Max. Resolution             | Up to 1920 x 1440                                                          |
| Max. Distance               | Up to 10 m                                                                 |
| <b>Control</b>              |                                                                            |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                        |
| <b>Power</b>                |                                                                            |
| Connectors                  | 1 x DC Jack                                                                |
| Consumption                 | DC5V: 1.22W                                                                |
| <b>Environmental</b>        |                                                                            |
| Operating Temperature       | 0 - 50°C                                                                   |
| Storage Temperature         | -20 - 60°C                                                                 |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                 |
| <b>Physical Properties</b>  |                                                                            |
| Housing                     | Plastic                                                                    |
| Weight                      | 0.45 kg ( 0.99 lb )                                                        |
| Dimensions (L x W x H)      | 17.35 x 19.13 x 4.50 cm (6.83 x 7.53 x 1.77 in.)                           |
| <b>Carton Lot</b>           | 5 pcs                                                                      |
| <b>Included Accessories</b> | 1x IR Remote Control; 1x Infrared Receiver; 1x VGA Cable; 1x Power Adapter |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| IR Remote Control | 2XRT-0007G       | 13-2     |

## VS0801A 8-Port VGA/Audio Switch with Auto Switching



Front



Rear



### Features

- 8 x 1 VGA/Audio I/O connections
- Video switching via front-panel pushbuttons, IR remote control, RS-232 serial device, or port-switching cable (optional)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Video DynaSync™** – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

### Specifications

| Function                    | VS0801A                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                             |
| Interfaces                  | 8 x HDB-15 Male (Blue)                                                                                                                      |
| Impedance                   | 75 $\Omega$                                                                                                                                 |
| Max. Distance               | 1.8 m                                                                                                                                       |
| <b>Video Output</b>         |                                                                                                                                             |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                                                                                    |
| Impedance                   | 75 $\Omega$                                                                                                                                 |
| <b>Video</b>                |                                                                                                                                             |
| Max. Bandwidth              | 300 MHz                                                                                                                                     |
| Max. Resolution             | Up to 1920 x 1440                                                                                                                           |
| Max. Distance               | Up to 30 m                                                                                                                                  |
| <b>Audio</b>                |                                                                                                                                             |
| Input                       | 8 x Mini Stereo Jack Female (Green)                                                                                                         |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                                                                         |
| <b>Control</b>              |                                                                                                                                             |
| RS-232                      | Connector: 1 x DB-9 Female (Black)<br>Baud Rate and Protocol:<br>Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No |
| <b>Power</b>                |                                                                                                                                             |
| Connectors                  | 1 x DC Jack                                                                                                                                 |
| Consumption                 | DC5.3V: 1.01W                                                                                                                               |
| <b>Environmental</b>        |                                                                                                                                             |
| Operating Temperature       | 0 - 50°C                                                                                                                                    |
| Storage Temperature         | -20 - 60°C                                                                                                                                  |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                  |
| <b>Physical Properties</b>  |                                                                                                                                             |
| Housing                     | Metal                                                                                                                                       |
| Weight                      | 2.10 kg ( 4.63 lb )                                                                                                                         |
| Dimensions (L x W x H)      | 43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)                                                                                            |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                       |
| <b>Included Accessories</b> | 1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit                                                                                     |

### Optional Accessories

| Description              | Part No. / Spec.               | Page No. |
|--------------------------|--------------------------------|----------|
| Port Switching VGA Cable | 2L-5202B / 2L-5203B / 2L-5205B | 13-2     |
| IR Remote Control        | 2XRT-0007G                     | 13-2     |

## VS0201 / VS0401 2/4-Port VGA/Audio Switch



### Features

- 2 x 1 or 4 x 1 VGA/Audio I/O connections
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Video DynaSync™** – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control

### Specifications

| Function                    | VS0201                                                                                                                                                   | VS0401                                                                                                                                                   |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                          |                                                                                                                                                          |
| Interfaces                  | 2 x HDB-15 Male (Blue)                                                                                                                                   | 4 x HDB-15 Male (Blue)                                                                                                                                   |
| Impedance                   | 75 Ω                                                                                                                                                     | 75 Ω                                                                                                                                                     |
| Max. Distance               | 1.8 m                                                                                                                                                    | 1.8 m                                                                                                                                                    |
| <b>Video Output</b>         |                                                                                                                                                          |                                                                                                                                                          |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                                                                                                 | 1 x HDB-15 Female (Blue)                                                                                                                                 |
| Impedance                   | 75 Ω                                                                                                                                                     | 75 Ω                                                                                                                                                     |
| Max. Distance               | 30 m                                                                                                                                                     | 30 m                                                                                                                                                     |
| <b>Video</b>                |                                                                                                                                                          |                                                                                                                                                          |
| Max. Bandwidth              | 300 MHz                                                                                                                                                  | 300 MHz                                                                                                                                                  |
| Max. Resolution             | Up to 1920 x 1440                                                                                                                                        | Up to 1920 x 1440                                                                                                                                        |
| Max. Distance               | Up to 30 m                                                                                                                                               | Up to 30 m                                                                                                                                               |
| <b>Audio</b>                |                                                                                                                                                          |                                                                                                                                                          |
| Input                       | 2 x Mini Stereo Jack Female (Green)                                                                                                                      | 4 x Mini Stereo Jack Female (Green)                                                                                                                      |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                                                                                      | 1 x Mini Stereo Jack Female (Green)                                                                                                                      |
| <b>Control</b>              |                                                                                                                                                          |                                                                                                                                                          |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate and Protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                                                                                                      | 1 x Mini Stereo Jack Female (Black)                                                                                                                      |
| <b>Power</b>                |                                                                                                                                                          |                                                                                                                                                          |
| Connectors                  | 1 x DC Jack                                                                                                                                              | 1 x DC Jack                                                                                                                                              |
| Consumption                 | DC5.3V: 0.55W                                                                                                                                            | DC5.3V: 0.47W                                                                                                                                            |
| <b>Environmental</b>        |                                                                                                                                                          |                                                                                                                                                          |
| Operating Temperature       | 0 - 50°C                                                                                                                                                 | 0 - 50°C                                                                                                                                                 |
| Storage Temperature         | -20 - 60°C                                                                                                                                               | -20 - 60°C                                                                                                                                               |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                               | 0 - 80% RH, Non-Condensing                                                                                                                               |
| <b>Physical Properties</b>  |                                                                                                                                                          |                                                                                                                                                          |
| Housing                     | Metal                                                                                                                                                    | Metal                                                                                                                                                    |
| Weight                      | 0.45 kg ( 0.99 lb )                                                                                                                                      | 0.66 kg ( 1.45 lb )                                                                                                                                      |
| Dimensions (L x W x H)      | 13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)                                                                                                             | 20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)                                                                                                             |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                    | 5 pcs                                                                                                                                                    |
| <b>Included Accessories</b> | 1x Power Adapter                                                                                                                                         |                                                                                                                                                          |

### Optional Accessories

| Description           | Part No. / Spec. | Page No. |
|-----------------------|------------------|----------|
| VGA / Audio Cable     | 2L-2402A         | 12-6     |
| IR Receiver Cable     | 2XRT-0003G       | 13-2     |
| IR Remote Control     | 2XRT-0101G       | 13-2     |
| Mounting Kit (VS0401) | 2X-020G          | 13-2     |



# VS291 / VS491 2/4-Port VGA Switch



Rear



## Features

- 2 x 1 or 4 x 1 VGA I/O connections
- Video switching via the topside pushbutton
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

## Specifications

| Function                    | VS291                                           | VS491                                           |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                 |                                                 |
| Interfaces                  | 2 x HDB-15 Female (Blue)                        | 4 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 $\Omega$                                     | 75 $\Omega$                                     |
| Max. Distance               | 1.8 m                                           | 1.8 m                                           |
| <b>Video Output</b>         |                                                 |                                                 |
| Interfaces                  | 1 x HDB-15 Female (Blue)                        | 1 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 $\Omega$                                     | 75 $\Omega$                                     |
| Max. Distance               | 10 m                                            | 10 m                                            |
| <b>Video</b>                |                                                 |                                                 |
| Max. Data Rate              | 150 MHz                                         | 150 MHz                                         |
| Max. Pixel Clock            | Up to 1920 x 1440                               | Up to 1920 x 1440                               |
| Compliance                  | Up to 10 m                                      | Up to 10 m                                      |
| <b>Power</b>                |                                                 |                                                 |
| Connectors                  | 1 x DC Jack                                     | 1 x DC Jack                                     |
| Consumption                 | DC9V: 0.82W                                     | DC9V: 0.82W                                     |
| <b>Environmental</b>        |                                                 |                                                 |
| Operating Temperature       | 0 - 50°C                                        | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                      | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                 |                                                 |
| Housing                     | Plastic / Metal                                 | Plastic / Metal                                 |
| Weight                      | 0.15 kg ( 0.33 lb )                             | 0.18 kg ( 0.4 lb )                              |
| Dimensions (L x W x H)      | 12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.) | 12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.) |
| <b>Carton Lot</b>           | 20 pcs                                          | 20 pcs                                          |
| <b>Included Accessories</b> | 1x Power Adapter                                |                                                 |

## VS201 2-Port VGA Switch Wall Plate



### Features

- 2 x 1 VGA I/O connections
- Automatic incoming signal selection (Auto)
- Quick and easy switching via slide switch
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

### Specifications

| Function                    | VS201                                          |
|-----------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                |
| Interfaces                  | 2 x HDB-15 Male (Blue)                         |
| Impedance                   | 75 $\Omega$                                    |
| Max. Distance               | 1.8 m                                          |
| <b>Video Output</b>         |                                                |
| Interfaces                  | 1 x HDB-15 Female (Blue)                       |
| Impedance                   | 75 $\Omega$                                    |
| Max. Distance               | 30 m                                           |
| <b>Video</b>                |                                                |
| Max. Bandwidth              | 300 MHz                                        |
| Max. Resolution             | Up to 1920 x 1440                              |
| Max. Distance               | Up to 30 m                                     |
| <b>Power</b>                |                                                |
| Connectors                  | 1 x DC Jack                                    |
| Consumption                 | DC5V: 0.75W                                    |
| <b>Environmental</b>        |                                                |
| Operating Temperature       | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                |
| Housing                     | Metal                                          |
| Weight                      | 0.20 kg ( 0.44 lb )                            |
| Dimensions (L x W x H)      | 10.36 x 7.90 x 2.79 cm (4.08 x 3.11 x 1.1 in.) |
| <b>Carton Lot</b>           | 20 pcs                                         |
| <b>Included Accessories</b> | 1x Power Adapter                               |

# Video Splitters

ATEN video splitters not only duplicate a single video source to multiple outputs but also boost the signal so it can be sent over longer distances without degradation. Multiple splitters can be cascaded up to three levels to provide a high number of displays in multiple locations. Models with audio functionality are available. ATEN video splitters are ideal for public broadcasting, computer stores, classrooms, training facilities and digital signage applications.



- **Cost Effective Expansion**

Video splitters easily and economically transmit the signals from a single AV source to multiple output devices so that all the connected monitors display the same content simultaneously. If an application calls for more displays, its installation can be expanded by cascading additional units via port connections on the splitter.

- **High Bandwidth – Crisp Output**

With ultra-high bandwidth support, images appear crisp, clear and true on each of the target displays.

- **Outstanding Multimedia Support**

In addition to high-quality video, the integrated audio component delivers an outstanding AV experience when working with modern multimedia applications.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.



## Specifications at a Glance

| Interface         | DisplayPort      | HDMI            |                 |                                    |                                     |
|-------------------|------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| Model             | VS192 / VS194    | VS0108HB        | VS182B / VS184B | VS0110HA                           | VS182A / VS184A / VS0108HA          |
| Inputs to Outputs | 1 to 2 / 1 to 4  | 1 to 8          | 1 to 2 / 1 to 4 | 1 to 10                            | 1 to 2 / 1 to 4 / 1 to 8            |
| Max. Resolution   | 4096 x 2160@60Hz | 4K@60Hz (4:4:4) | 4K@60Hz (4:4:4) | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4) | 4K@60Hz (4:2:0)<br>4K@30Hz (4:4:4)  |
| HDR               | N/A              | •               | •               | N/A                                | N/A                                 |
| HDCP              | 1.3              | 2.2             | 2.2             | 1.4                                | VS182A/VS184A: 1.4<br>VS0108HA: 1.3 |
| Audio             | • (DisplayPort)  | • (HDMI)        | • (HDMI)        | • (HDMI)                           | • (HDMI)                            |
| Data Rate         | 21.6Gbps         | 18Gbps          | 18Gbps          | 10.2Gbps                           | 10.2Gbps                            |

| Interface         | HDMI            | DVI             |                 | SDI        | VGA         |
|-------------------|-----------------|-----------------|-----------------|------------|-------------|
| Model             | VS82H           | VS172 / VS174   | VS162 / VS164   | VS146      | VS0116      |
| Inputs to Outputs | 1 to 2          | 1 to 2 / 1 to 4 | 1 to 2 / 1 to 4 | 1 to 6     | 1 to 16     |
| Max. Resolution   | 4K@60Hz (4:4:4) | 2560 x 1600     | 1920 x 1200     | 1080p@60Hz | 1920 x 1440 |
| HDR               | •               | N/A             | N/A             | N/A        | N/A         |
| HDCP              | 2.2             | N/A             | 1.3             | N/A        | N/A         |
| Audio             | • (HDMI)        | • (Stereo)      | • (Stereo)      | •          | • (Stereo)  |
| Data Rate         | 18Gbps          | 13.5Gbps        | 6.75Gbps        | 2.97Gbps   | 250MHz      |

| Interface         | VGA                      |                          |                          |                 |                                |
|-------------------|--------------------------|--------------------------|--------------------------|-----------------|--------------------------------|
| Model             | VS0102 / VS0104 / VS0108 | VS132A / VS134A / VS138A | VS92A / VS94A / VS98A    | VS82 / VS84     | VS132 / VS102                  |
| Inputs to Outputs | 1 to 2 / 1 to 4 / 1 to 8 | 1 to 2 / 1 to 4 / 1 to 8 | 1 to 2 / 1 to 4 / 1 to 8 | 1 to 2 / 1 to 4 | 1 to 2                         |
| Max. Resolution   | 1920 x 1440              | 2048 x 1536              | 1920 x 1440              | 1920 x 1440     | 1920 x 1440                    |
| Audio             | • (Stereo)               | N/A                      | N/A                      | N/A             | N/A                            |
| Data Rate         | 450MHz                   | 450MHz                   | 350MHz                   | 250MHz          | VS132: 350MHz<br>VS102: 250MHz |

## VS192 / VS194 2/4-Port 4K DisplayPort Splitter



Front



Rear



### Features

- Connects 1 DisplayPort input to 2/4 DisplayPort outputs
- DisplayPort 1.2a; HDCP 1.3 compatible
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 60Hz
- Supports MST/ Extend Mode and SST/ Split Mode
- MST/ Extend Mode:** Extends a video source across 2/4 displays with a maximum resolution of 4K
- SST/ Split Mode:** Duplicates a single video source to 2/4 displays with a maximum resolution of 4K on each monitor

Note: The maximum supported video resolution and number of monitors are dependent on the graphics card you are using. Check the specifications of the graphics card to determine its capabilities.

### Specifications

| Function                    | VS192                                           | VS194                                           |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                 |                                                 |
| Interfaces                  | 1 x DisplayPort Female (Black)                  | 1 x DisplayPort Female (Black)                  |
| <b>Video Output</b>         |                                                 |                                                 |
| Interfaces                  | 2 x DisplayPort Female (Black)                  | 4 x DisplayPort Female (Black)                  |
| <b>Video</b>                |                                                 |                                                 |
| Max. Data Rate              | 21.6 Gbps (5.4 Gbps per lane)                   | 21.6 Gbps (5.4 Gbps per lane)                   |
| Compliance                  | DP 1.2a; HDCP 1.3                               | DP 1.2a; HDCP 1.3                               |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz          | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz          |
| <b>Power</b>                |                                                 |                                                 |
| Connectors                  | 1 x DC Jack                                     | 1 x DC Jack                                     |
| Consumption                 | DC5V: 1.185W                                    | DC5V: 3.36W                                     |
| <b>Environmental</b>        |                                                 |                                                 |
| Operating Temperature       | 0 - 40 °C                                       | 0 - 40 °C                                       |
| Storage Temperature         | -20 - 60 °C                                     | -20 - 60 °C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                 |                                                 |
| Housing                     | Metal                                           | Metal                                           |
| Weight                      | 0.30 kg ( 0.66 lb )                             | 0.33 kg ( 0.73 lb )                             |
| Dimensions (L x W x H)      | 12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.) | 12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.) |
| <b>Carton Lot</b>           | 20 pcs                                          | 20 pcs                                          |
| <b>Included Accessories</b> | 1x Power Adapter                                |                                                 |

### Optional Accessories

| Description                 | Part No. / Spec. | Page No. |
|-----------------------------|------------------|----------|
| DisplayPort Cable*          | 2L-7D02DP (2m)   | 12-6     |
| DisplayPort to VGA Adapter  | VC925            | 10-15    |
| DisplayPort to HDMI Adapter | VC985            | 10-15    |

\*Cables with different lengths are available; please refer to 12-6.

## VS0108HB 8-Port True 4K HDMI Splitter



Front



Rear



### Features

- Connects 1 HDMI Input to 8 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
- Superior video quality – True 4K resolutions of 4096 x 2160 @ 60Hz (4:4:4) and HDR
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission from source to sink up to 6m
- Built-in bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U design)

### Specifications

| Function                   | VS0108HB                                                                                                                                   |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>         |                                                                                                                                            |
| Interfaces                 | 1 x HDMI Type A Female (Black)                                                                                                             |
| Impedance                  | 100 Ω                                                                                                                                      |
| Max. Distance              | 3m; 4K@60Hz (4:4:4)                                                                                                                        |
| <b>Video Output</b>        |                                                                                                                                            |
| Interfaces                 | 8 x HDMI Type A Female (Black)                                                                                                             |
| Impedance                  | 100 Ω                                                                                                                                      |
| Max. Distance              | 3m; 4K@60Hz (4:4:4)                                                                                                                        |
| <b>Video</b>               |                                                                                                                                            |
| Max. Data Rate             | 18 Gbps (6 Gbps Per Lane)                                                                                                                  |
| Max. Pixel Clock           | 600 MHz                                                                                                                                    |
| Compliance                 | HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2                                                                                                    |
| Max. Resolution            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)                                                                                             |
| <b>Control</b>             |                                                                                                                                            |
| RS-232                     | Connector: 1 x DB-9 Female (Black)<br>Baud rate and protocol:<br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| EDID Settings              | EDID Mode: Port 1 / Default / Auto / Switch                                                                                                |
| <b>Power</b>               |                                                                                                                                            |
| Connectors                 | 1 x DC Jack                                                                                                                                |
| Consumption                | DC5V: 11.95W                                                                                                                               |
| <b>Environmental</b>       |                                                                                                                                            |
| Operating Temperature      | 0 - 40°C                                                                                                                                   |
| Storage Temperature        | -20 - 60°C                                                                                                                                 |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                                 |
| <b>Physical Properties</b> |                                                                                                                                            |
| Housing                    | Metal                                                                                                                                      |
| Weight                     | 2.18 kg ( 4.8 lb )                                                                                                                         |
| Dimensions (L x W x H)     | 43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)                                                                                          |
| Carton Lot                 | 3 pcs                                                                                                                                      |
| Included Accessories       | 1x Power Adapter; 1x Mounting Kit                                                                                                          |

### Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2m)  | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

## VS182B / VS184B 2/4-Port True 4K HDMI Splitter



Front



Rear



### Features

- Connects 1 HDMI input to 2/4 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
- Superior video quality – **True 4K** resolutions of 4096 x 2160 @ 60Hz (4:4:4) and HDR
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission – up to 15m (1920 x 1200) / 1.8m (True 4K)

### Specifications

| Function                    | VS182B                                            | VS184B                                            |
|-----------------------------|---------------------------------------------------|---------------------------------------------------|
| <b>Video Input</b>          |                                                   |                                                   |
| Interfaces                  | 1 x HDMI Type A Female (Black)                    | 1 x HDMI Type A Female (Black)                    |
| Impedance                   | 100 Ω                                             | 100 Ω                                             |
| Max. Distance               | 1.8m; 4K@60Hz (4:4:4)                             | 1.8m; 4K@60Hz (4:4:4)                             |
| <b>Video Output</b>         |                                                   |                                                   |
| Interfaces                  | 2 x HDMI Type A Female (Black)                    | 4 x HDMI Type A Female (Black)                    |
| Impedance                   | 100 Ω                                             | 100 Ω                                             |
| Max. Distance               | 1.8m; 4K@60Hz (4:4:4)<br>15m; 1920 x 1200         | 1.8m; 4K@60Hz (4:4:4)<br>15m; 1920 x 1200         |
| <b>Video</b>                |                                                   |                                                   |
| Max. Data Rate              | 18 Gbps (6 Gbps Per Lane)                         | 18 Gbps (6 Gbps Per Lane)                         |
| Max. Pixel Clock            | 600 MHz                                           | 600 MHz                                           |
| Compliance                  | HDMI (3D, Deep Color, 4K);<br>HDCP 2.2 Compatible | HDMI (3D, Deep Color, 4K);<br>HDCP 2.2 Compatible |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)    | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)    |
| <b>Power</b>                |                                                   |                                                   |
| Connectors                  | 1 x DC Jack                                       | 1 x DC Jack                                       |
| Consumption                 | DC5V: 4.24W                                       | DC5V: 4.84W                                       |
| <b>Environmental</b>        |                                                   |                                                   |
| Operating Temperature       | 0 - 40 °C                                         | 0 - 40 °C                                         |
| Storage Temperature         | -20 - 60 °C                                       | -20 - 60 °C                                       |
| Humidity                    | 0 - 80% RH, Non-Condensing                        | 0 - 80% RH, Non-Condensing                        |
| <b>Physical Properties</b>  |                                                   |                                                   |
| Housing                     | Metal                                             | Metal                                             |
| Weight                      | 0.32 kg ( 0.7 lb )                                | 0.48 kg ( 1.06 lb )                               |
| Dimensions (L x W x H)      | 12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)   | 20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)   |
| <b>Carton Lot</b>           | 20 pcs                                            | 20 pcs                                            |
| <b>Included Accessories</b> | 1x Power Adapter; 1x HDMI Cable                   |                                                   |

### Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available; please refer to 12-5.



# VS0110HA 10-Port 4K HDMI Splitter



Front



Rear



## Features

- Connects 1 HDMI input to 10 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible
- Superior video quality – up to 4K resolutions of 4096 x 2160 @ 60Hz (4:2:0)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission from source to sink up to 15m
- Built-in bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

## Specifications

| Function                    | VS0110HA                                                                                                                                                   |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                            |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                             |
| Impedance                   | 100 Ω                                                                                                                                                      |
| Max. Distance               | 5m; 4K@60Hz (4:2:0)                                                                                                                                        |
| <b>Video Output</b>         |                                                                                                                                                            |
| Interfaces                  | 10 x HDMI Type A Female (Black)                                                                                                                            |
| Impedance                   | 100 Ω                                                                                                                                                      |
| Max. Distance               | 10m; 4K@60Hz (4:2:0)                                                                                                                                       |
| <b>Video</b>                |                                                                                                                                                            |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                              |
| Max. Pixel Clock            | 340 MHz                                                                                                                                                    |
| Compliance                  | HDMI 1.4 (3D, Deep Color, 4K); HDCP 1.4 Compatible                                                                                                         |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)                                                                   |
| <b>Control</b>              |                                                                                                                                                            |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud Rate:</b> 19200, <b>Data Bits:</b> 8, <b>Stop Bits:</b> 1, <b>Parity:</b> No, <b>Flow Control:</b> No |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default (1080p) / Port 1 / Auto                                                                                                          |
| <b>Connectors</b>           |                                                                                                                                                            |
| Power                       | 1 x DC Jack                                                                                                                                                |
| USB Port                    | 1 x Micro USB (FW upgrade)                                                                                                                                 |
| <b>Power Consumption</b>    | DC5V: 4.34W                                                                                                                                                |
| <b>Environmental</b>        |                                                                                                                                                            |
| Operating Temperature       | 0 - 40 °C                                                                                                                                                  |
| Storage Temperature         | -20 - 60 °C                                                                                                                                                |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                 |
| <b>Physical Properties</b>  |                                                                                                                                                            |
| Housing                     | Metal                                                                                                                                                      |
| Weight                      | 2.96 kg ( 6.52 lb )                                                                                                                                        |
| Dimensions (L x W x H)      | 43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)                                                                                                          |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                                      |
| <b>Included Accessories</b> | 1x Power Adapter; 1x Mounting Kit                                                                                                                          |

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

## VS182A / VS184A / VS0108HA 2/4/8-Port 4K HDMI Splitter



(VS0108HA)

(VS0108HA)

Front



Rear



### Features

- Connects 1 HDMI input to 2/4/8 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 1.4/1.3 Compatible
- Superior video quality – up to 4K resolutions of 4096 x 2160 @ 60Hz (4:2:0)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens (VS0108HA)
- Long distance transmission – up to 15 m (24 AWG)
- Built-in bi-directional RS-232 serial port for high-end system control (VS0108HA)
- Rack-mountable (VS0108HA; 1U)

### Specifications

| Function               | VS182A                                                                                   | VS184A                                             | VS0108HA                                                                                                                                         |
|------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input            |                                                                                          |                                                    |                                                                                                                                                  |
| Interfaces             | 1 x HDMI Type A Female (Black)                                                           | 1 x HDMI Type A Female (Black)                     | 1 x HDMI Type A Female (Black)                                                                                                                   |
| Impedance              | 100 Ω                                                                                    | 100 Ω                                              | 100 Ω                                                                                                                                            |
| Max. Distance          | 1.8 m                                                                                    | 1.8 m                                              | 1.8 m                                                                                                                                            |
| Video Output           |                                                                                          |                                                    |                                                                                                                                                  |
| Interfaces             | 2 x HDMI Type A Female (Black)                                                           | 4 x HDMI Type A Female (Black)                     | 8 x HDMI Type A Female (Black)                                                                                                                   |
| Impedance              | 100 Ω                                                                                    | 100 Ω                                              | 100 Ω                                                                                                                                            |
| Max. Distance          | Up to 15 m                                                                               | Up to 15 m                                         | Up to 15 m                                                                                                                                       |
| Video                  |                                                                                          |                                                    |                                                                                                                                                  |
| Max. Data Rate         | 10.2 Gbps (3.4 Gbps Per Lane)                                                            | 10.2 Gbps (3.4 Gbps Per Lane)                      | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                    |
| Max. Pixel Clock       | 340 MHz                                                                                  | 340 MHz                                            | 340 MHz                                                                                                                                          |
| Compliance             | HDMI (3D, Deep Color, 4K);<br>HDCP 1.4 Compatible                                        | HDMI (3D, Deep Color, 4K);<br>HDCP 1.4 Compatible  | HDMI (3D, Deep Color, 4K);<br>HDCP 1.3 Compatible                                                                                                |
| Max. Resolution        | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |                                                    |                                                                                                                                                  |
| Control                |                                                                                          |                                                    |                                                                                                                                                  |
| RS-232                 | N/A                                                                                      | N/A                                                | Connector: 1 x DB-9 Female (Black)<br>Baud rate and protocol:<br>Baud Rate: 19200,<br>Data Bits: 8, Stop Bits:1, Parity: No,<br>Flow Control: No |
| EDID Settings          | N/A                                                                                      | N/A                                                | EDID Mode: Default / Port 1 / Auto                                                                                                               |
| Power                  |                                                                                          |                                                    |                                                                                                                                                  |
| Connectors             | 1 x DC Jack                                                                              | 1 x DC Jack                                        | 1 x DC Jack                                                                                                                                      |
| Consumption            | DC5.3V: 3.12W                                                                            | DC5.3V: 6.02W                                      | DC5V: 12.1W                                                                                                                                      |
| Environmental          |                                                                                          |                                                    |                                                                                                                                                  |
| Operating Temperature  | 0 - 50 °C                                                                                | 0 - 50 °C                                          | 0 - 50 °C                                                                                                                                        |
| Storage Temperature    | -20 - 60 °C                                                                              | -20 - 60°C                                         | -20 - 60 °C                                                                                                                                      |
| Humidity               | 0 - 80% RH, Non-Condensing                                                               | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                                                                                                                       |
| Physical Properties    |                                                                                          |                                                    |                                                                                                                                                  |
| Housing                | Metal                                                                                    | Metal                                              | Metal                                                                                                                                            |
| Weight                 | 0.31 kg ( 0.68 lb )                                                                      | 0.47 kg ( 1.04 lb )                                | 1.74 kg ( 3.83 lb )                                                                                                                              |
| Dimensions (L x W x H) | 12.50 x 8.00 x 2.50 cm<br>(4.92 x 3.15 x 0.98 in.)                                       | 20.00 x 8.00 x 2.50 cm<br>(7.87 x 3.15 x 0.98 in.) | 43.72 x 15.78 x 4.40 cm<br>(17.21 x 6.21 x 1.73 in.)                                                                                             |
| Carton Lot             | 20 pcs                                                                                   | 20 pcs                                             | 3 pcs                                                                                                                                            |
| Included Accessories   | 1x HDMI Cable (VS182A/VS184A); 1x Power Adapter; 1x Mounting Kit (VS0108HA)              |                                                    |                                                                                                                                                  |

### Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available; please refer to 12-5.

## VS82H 2-Port True 4K HDMI Splitter



RS-232  
Control

EDID



### Features

- Connects 1 HDMI input to 2 HDMI outputs
- True 4K video resolution (up to 4096 x 2160 @ 60Hz; 4:4:4); HDR supported
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compliant
- Supports max. data rate up to 18 Gbps
- Hardware selectable EDID mode for high-quality display and use of the best resolution across different screens
- Quality and durable aluminum metal enclosure
- Supports Dolby TrueHD and DTS-HD Master Audio

### Specifications

| Function                    | VS82H                                              |
|-----------------------------|----------------------------------------------------|
| <b>Video Input</b>          |                                                    |
| Interfaces                  | 1 x HDMI Type A Female (Black)                     |
| Impedance                   | 100 $\Omega$                                       |
| Max. Distance               | 15cm; 4K@60Hz (4:4:4)                              |
| <b>Video Output</b>         |                                                    |
| Interfaces                  | 2 x HDMI Type A Female (Black)                     |
| Impedance                   | 100 $\Omega$                                       |
| Max. Distance               | 1.8m; 4K@60Hz (4:4:4)                              |
| <b>Video</b>                |                                                    |
| Max. Data Rate              | 18 Gbps (6 Gbps Per Lane)                          |
| Max. Pixel Clock            | 600 MHz                                            |
| Compliance                  | HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 Compatible |
| Max. Resolution             | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)     |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Port 1 / Default                 |
| <b>Connectors</b>           |                                                    |
| USB Port                    | Micro-USB X 1 (FW upgrade & power source)          |
| <b>Power Consumption</b>    | DC 5V                                              |
| <b>Environmental</b>        |                                                    |
| Operating Temperature       | 0 - 40 °C                                          |
| Storage Temperature         | -20 - 60 °C                                        |
| Humidity                    | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b>  |                                                    |
| Housing                     | Metal (aluminum)                                   |
| Weight                      | 93 g (0.21 lb)                                     |
| Dimensions (L x W x H)      | 8.80 x 6.00 x 1.50 cm (3.46 x 2.36 x 0.59 in.)     |
| <b>Included Accessories</b> | 1x Micro-USB Cable                                 |

### Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available; please refer to 12-5.

## VS172 / VS174 2/4-Port DVI Dual Link/Audio Splitter PRO



Front



Rear



### Features

- Connects 1 DVI/Audio AV input to 2/4 DVI/Audio AV outputs
- Superior video quality – up to 2560 x 1600 @ 60Hz including 2K-resolution (2048 x 2048 @ 60Hz)
- Cascadable to 3 levels – provides up to 64 video signals
- System management via RS-232 connections
- **RS-232 Chain Control** – uses RS-232 commands to control cascaded devices via a DVI cable
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens

### Specifications

| Function                    | VS172                                                                                                                                                    | VS174                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                          |                                                                                                                                                          |
| Interfaces                  | 1 x DVI-D Female (White)                                                                                                                                 | 1 x DVI-D Female (White)                                                                                                                                 |
| Impedance                   | 100 Ω                                                                                                                                                    | 100 Ω                                                                                                                                                    |
| Max. Distance               | 1.8 m                                                                                                                                                    | 1.8 m                                                                                                                                                    |
| <b>Video Output</b>         |                                                                                                                                                          |                                                                                                                                                          |
| Interfaces                  | 2 x DVI-D Female (White)                                                                                                                                 | 4 x DVI-D Female (White)                                                                                                                                 |
| Impedance                   | 100 Ω                                                                                                                                                    | 100 Ω                                                                                                                                                    |
| Max. Distance               | Up to 5 m                                                                                                                                                | Up to 5 m                                                                                                                                                |
| <b>Video</b>                |                                                                                                                                                          |                                                                                                                                                          |
| Max. Data Rate              | 13.5 Gbps (2.25 Gbps Per Lane)                                                                                                                           | 13.5 Gbps (2.25 Gbps Per Lane)                                                                                                                           |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                  | 225 MHz                                                                                                                                                  |
| Max. Resolution             | Up to 2560 x 1600                                                                                                                                        | Up to 2560 x 1600                                                                                                                                        |
| <b>Audio</b>                |                                                                                                                                                          |                                                                                                                                                          |
| Input                       | 1 x Mini Stereo Jack Female (Green)                                                                                                                      | 1 x Mini Stereo Jack Female (Green)                                                                                                                      |
| Output                      | 2 x Mini Stereo Jack Female (Green)                                                                                                                      | 4 x Mini Stereo Jack Female (Green)                                                                                                                      |
| <b>Control</b>              |                                                                                                                                                          |                                                                                                                                                          |
| RS-232                      | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud rate and protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No | <b>Connector:</b> 1 x DB-9 Female (Black)<br><b>Baud rate and protocol:</b><br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default / Port 1 / Auto                                                                                                                | <b>EDID Mode:</b> Default / Port 1 / Auto                                                                                                                |
| <b>Power</b>                |                                                                                                                                                          |                                                                                                                                                          |
| Connectors                  | 1 x DC Jack                                                                                                                                              | 1 x DC Jack                                                                                                                                              |
| Consumption                 | DC5.3V: 3.6W                                                                                                                                             | DC5.3V: 5.91W                                                                                                                                            |
| <b>Environmental</b>        |                                                                                                                                                          |                                                                                                                                                          |
| Operating Temperature       | 0 - 50°C                                                                                                                                                 | 0 - 50°C                                                                                                                                                 |
| Storage Temperature         | -20 - 60°C                                                                                                                                               | -20 - 60°C                                                                                                                                               |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                               | 0 - 80% RH, Non-Condensing                                                                                                                               |
| <b>Physical Properties</b>  |                                                                                                                                                          |                                                                                                                                                          |
| Housing                     | Metal                                                                                                                                                    | Metal                                                                                                                                                    |
| Weight                      | 0.68 kg ( 1.5 lb )                                                                                                                                       | 0.73 kg ( 1.61 lb )                                                                                                                                      |
| Dimensions (L x W x H)      | 21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)                                                                                                          | 21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)                                                                                                          |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                    | 5 pcs                                                                                                                                                    |
| <b>Included Accessories</b> | 1x Power Adapter                                                                                                                                         |                                                                                                                                                          |

Note: HDCP is not supported

### Optional Accessories

| Description          | Part No. / Spec. | Page No. |
|----------------------|------------------|----------|
| Dual Link DVI Cable* | 2L-7D03DD (3 m)  | 12-6     |
| DVI Cable with Audio | 2L-7D02V         | 12-6     |

\*Cables with different lengths are available; please refer to 12-6.

## VS162 / VS164 2/4-Port DVI/Audio Splitter



Front



Rear



### Features

- Connects 1 DVI/Audio input to 2/4 DVI/Audio outputs
- **DDC/CI support** – allows color, brightness, contrast and other adjustments via GUI for DDC/CI enabled LCD monitors
- Superior video quality – up to 1920 x 1200
- Fully compliant with DVI-digital and DVI-analog
- Supports DDWG (Digital Display Working Group) standard for DVI compliant monitors
- Cascadable to 3 levels - provides up to 64 video signals
- HDCP 1.3 compliant
- Speaker enabled for audio enjoyment

### Specifications

| Function                    | VS162                                           | VS164                                           |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                 |                                                 |
| Interfaces                  | 1 x DVI-I Female (White)                        | 1 x DVI-I Female (White)                        |
| Impedance                   | 100 $\Omega$                                    | 100 $\Omega$                                    |
| Max. Distance               | 1.8 m                                           | 1.8 m                                           |
| <b>Video Output</b>         |                                                 |                                                 |
| Interfaces                  | 2 x DVI-D Female (White)                        | 4 x DVI-D Female (White)                        |
| Impedance                   | 100 $\Omega$                                    | 100 $\Omega$                                    |
| Max. Distance               | Up to 5 m                                       | Up to 5 m                                       |
| <b>Video</b>                |                                                 |                                                 |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                  | 6.75 Gbps (2.25 Gbps Per Lane)                  |
| Max. Pixel Clock            | 225 MHz                                         | 225 MHz                                         |
| Compliance                  | HDCP 1.3 Compatible                             | HDCP 1.3 Compatible                             |
| Max. Resolution             | Up to 1920 x 1200                               | Up to 1920 x 1200                               |
| <b>Audio</b>                |                                                 |                                                 |
| Input                       | 1 x Mini Stereo Jack Female (Green)             | 1 x Mini Stereo Jack Female (Green)             |
| Output                      | 2 x Mini Stereo Jack Female (Green)             | 4 x Mini Stereo Jack Female (Green)             |
| <b>Power</b>                |                                                 |                                                 |
| Connectors                  | 1 x DC Jack                                     | 1 x DC Jack                                     |
| Consumption                 | DC5.3V: 2.36W                                   | DC5.3V: 3.95W                                   |
| <b>Environmental</b>        |                                                 |                                                 |
| Operating Temperature       | 0 - 50°C                                        | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                      | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                 |                                                 |
| Housing                     | Metal                                           | Metal                                           |
| Weight                      | 0.62 kg ( 1.37 lb )                             | 0.72 kg ( 1.59 lb )                             |
| Dimensions (L x W x H)      | 21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.) | 21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.) |
| <b>Carton Lot</b>           | 5 pcs                                           | 5 pcs                                           |
| <b>Included Accessories</b> | 1x Power Adapter                                |                                                 |

### Optional Accessories

| Description          | Part No. / Spec. | Page No. |
|----------------------|------------------|----------|
| DVI Cable with Audio | 2L-7D02V         | 12-6     |

# VS146 6-Port 3G-SDI Splitter



## Features

- Connects 1 SDI input to 6 SDI outputs
- Supports an SDI distance of up to 90m (3G-SDI), 150m (HD-SDI), or 300m (SD-SDI) of RG6
- Re-clocking SDI signals for cascading and thus longer transmission
- Automatic detection of 3G/HD/SD-SDI signals
- Passes all ancillary data
- Power connector lock for secure communication

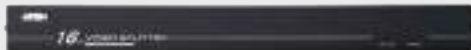
## Specifications

| Function                    | VS146                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                      |
| Interfaces                  | 1 x BNC (Gold)                                                                                                       |
| Impedance                   | 75 $\Omega$                                                                                                          |
| Max. Distance               | 1.8 m                                                                                                                |
| <b>Video Output</b>         |                                                                                                                      |
| Interfaces                  | 6 x BNC (Gold)                                                                                                       |
| Impedance                   | 75 $\Omega$                                                                                                          |
| <b>Video</b>                |                                                                                                                      |
| Max. Data Rate              | 2.97 Gbps                                                                                                            |
| Supported Resolutions       | NTSC@59.96 Hz, PAL@50 Hz<br>720p@50/59.94/60 Hz<br>1080i@50/59.94/60 Hz<br>1080p@23.97/24/25/29.97/30/50/59.94/60 Hz |
| Max. Distance               | 90 m (3G-SDI); 150 m (HD-SDI); 300 m (SD-SDI)                                                                        |
| <b>Power</b>                |                                                                                                                      |
| Connectors                  | 1 x DC Jack                                                                                                          |
| Consumption                 | DC5V: 10W                                                                                                            |
| <b>Environmental</b>        |                                                                                                                      |
| Operating Temperature       | 0 - 40°C                                                                                                             |
| Storage Temperature         | -20 - 60°C                                                                                                           |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                           |
| <b>Physical Properties</b>  |                                                                                                                      |
| Housing                     | Metal                                                                                                                |
| Weight                      | 0.32 kg ( 0.7 lb )                                                                                                   |
| Dimensions (L x W x H)      | 10.80 x 13.90 x 2.80 cm (4.25 x 5.47 x 1.1 in.)                                                                      |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                |
| <b>Included Accessories</b> | 1x Power Adapter                                                                                                     |

## VS0116 16-Port VGA/Audio Splitter (250MHz)



Front



Rear



### Features

- Connects 1 VGA/Audio input to 16 VGA/Audio outputs
- Superior video quality – up to 1920 x 1440
- Supports up to 250MHz bandwidth
- Cascadable to 3 levels - provides up to thousands of video signals
- Long distance transmission - up to 65 m
- Rack-mountable (1U design)

### Specifications

| Function                    | VS0116                                                |
|-----------------------------|-------------------------------------------------------|
| <b>Video Input</b>          |                                                       |
| Interfaces                  | 1 x HDB-15 Male (Blue)                                |
| Impedance                   | 75 Ω                                                  |
| Max. Distance               | 1.8 m                                                 |
| <b>Video Output</b>         |                                                       |
| Interfaces                  | 16 x HDB-15 Female (Blue)                             |
| Impedance                   | 75 Ω                                                  |
| <b>Video</b>                |                                                       |
| Max. Bandwidth              | 250 MHz                                               |
| Max. Resolution             | Up to 1920 x 1440                                     |
| Max. Distance               | Up to 30 m                                            |
| <b>Audio</b>                |                                                       |
| Input                       | 1 x Mini Stereo Jack Female (Green)                   |
| Output                      | 16 x Mini Stereo Jack Female (Green)                  |
| <b>Power</b>                |                                                       |
| Connectors                  | 1 x DC Jack                                           |
| Consumption                 | DC5.3V: 3.07W                                         |
| <b>Environmental</b>        |                                                       |
| Operating Temperature       | 0 - 50°C                                              |
| Storage Temperature         | -20 - 60°C                                            |
| Humidity                    | 0 - 80% RH, Non-Condensing                            |
| <b>Physical Properties</b>  |                                                       |
| Housing                     | Metal                                                 |
| Weight                      | 2.80 kg ( 6.17 lb )                                   |
| Dimensions (L x W x H)      | 43.72 x 15.81 x 4.40 cm (17.21 x 6.22 x 1.73 in.)     |
| <b>Carton Lot</b>           | 3 pcs                                                 |
| <b>Included Accessories</b> | 1x VGA/Audio Cable; 1x Power Adapter; 1x Mounting Kit |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| VGA / Audio Cable | 2L-2402A         | 12-6     |
| VGA EDID Emulator | 2A-130G          | 10-19    |



# VS0102 / VS0104 / VS0108 2/4/8-Port VGA/Audio Splitter (450MHz)

PRO



Front



Rear



## Features

- Connects 1 VGA/Audio input to 2/4/8 VGA/Audio outputs
- Superior video quality – up to 1920 x 1440 @ 60Hz
- Supports up to 450MHz bandwidth for high performance video
- System management via RS-232 connections
- [RS-232 Chain Control](#) – uses RS-232 commands to control cascaded devices via a DVI cable
- [EDID Expert™](#) – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Rack-mountable (VS0108; 1U)

## Specifications

| Function               | VS0102                                          | VS0104                                          | VS0108                                           |
|------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| Video Input            |                                                 |                                                 |                                                  |
| Interfaces             | 1 x HDB-15 Male (Blue)                          | 1 x HDB-15 Male (Blue)                          | 1 x HDB-15 Male (Blue)                           |
| Impedance              | 75 Ω                                            | 75 Ω                                            | 75 Ω                                             |
| Max. Distance          | 1.8 m                                           | 1.8 m                                           | 1.8 m                                            |
| Video Output           |                                                 |                                                 |                                                  |
| Interfaces             | 2 x HDB-15 Female (Blue)                        | 4 x HDB-15 Female (Blue)                        | 8 x HDB-15 Female (Blue)                         |
| Impedance              | 75 Ω                                            | 75 Ω                                            | 75 Ω                                             |
| Video                  |                                                 |                                                 |                                                  |
| Max. Bandwidth         | 450 MHz                                         | 450 MHz                                         | 450 MHz                                          |
| Max. Resolution        | Up to 1920 x 1440                               | Up to 1920 x 1440                               | Up to 1920 x 1440                                |
| Max. Distance          | Up to 30 m                                      | Up to 30 m                                      | Up to 30 m                                       |
| Audio                  |                                                 |                                                 |                                                  |
| Input                  | 1 x Mini Stereo Jack Female (Green)             | 1 x Mini Stereo Jack Female (Green)             | 1 x Mini Stereo Jack Female (Green)              |
| Output                 | 2 x Mini Stereo Jack Female (Green)             | 4 x Mini Stereo Jack Female (Green)             | 8 x Mini Stereo Jack Female (Green)              |
| Control                |                                                 |                                                 |                                                  |
| RS-232                 | 1 x DB-9 Female (Black)                         |                                                 |                                                  |
| EDID Settings          | EDID Mode: Default / Port 1 / Auto              |                                                 |                                                  |
| Power                  |                                                 |                                                 |                                                  |
| Connectors             | 1 x DC Jack                                     | 1 x DC Jack                                     | 1 x DC Jack                                      |
| Consumption            | DC5.3V: 0.74W                                   | DC5.3V: 1.13W                                   | DC5.3V: 2.18W                                    |
| Environmental          |                                                 |                                                 |                                                  |
| Operating Temperature  | 0 - 50 °C                                       | 0 - 50 °C                                       | 0 - 50 °C                                        |
| Storage Temperature    | -20 - 60 °C                                     | -20 - 60°C                                      | -20 - 60 °C                                      |
| Humidity               | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                       |
| Physical Properties    |                                                 |                                                 |                                                  |
| Housing                | Metal                                           | Metal                                           | Metal                                            |
| Weight                 | 0.46 kg ( 1.01 lb )                             | 0.68 kg ( 1.5 lb )                              | 0.87 kg ( 1.92 lb )                              |
| Dimensions (L x W x H) | 13.00 x 7.61 x 4.40 cm<br>(5.12 x 3 x 1.73 in.) | 20.00 x 7.61 x 4.40 cm<br>(7.87 x 3 x 1.73 in.) | 26.00 x 7.61 x 4.40 cm<br>(10.24 x 3 x 1.73 in.) |
| Carton Lot             | 10 pcs                                          | 10 pcs                                          | 10 pcs                                           |
| Included Accessories   | 1x Power Adapter                                |                                                 |                                                  |

## Optional Accessories

| Description             | Part No. / Spec. | Page No. |
|-------------------------|------------------|----------|
| VGA / Audio Cable       | 2L-2402A         | 12-6     |
| Mounting Kit ( VS0108 ) | 2X-020G          | 13-2     |
| VGA EDID Emulator       | 2A-130G          | 10-19    |

## VS132A / VS134A / VS138A 2/4/8-Port VGA Splitter (450MHz)



Front



Rear



### Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Superior video quality – up to 2048 x 1536
- Supports up to 450MHz bandwidth for high-performance video
- Cascadable to 3 levels – provides up to 512 video signals
- Built-in 1.5 GHz amplifier – maintains video system with excellent fidelity

### Specifications

| Function                    | VS132A                                             | VS134A                                             | VS138A                                             |
|-----------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Video Input</b>          |                                                    |                                                    |                                                    |
| Interfaces                  | 1 x HDB-15 Male (Blue)                             | 1 x HDB-15 Male (Blue)                             | 1 x HDB-15 Male (Blue)                             |
| Impedance                   | 75 Ω                                               | 75 Ω                                               | 75 Ω                                               |
| Max. Distance               | 1.8 m                                              | 1.8 m                                              | 1.8 m                                              |
| <b>Video Output</b>         |                                                    |                                                    |                                                    |
| Interfaces                  | 2 x HDB-15 Female (Blue)                           | 4 x HDB-15 Female (Blue)                           | 8 x HDB-15 Female (Blue)                           |
| Impedance                   | 75 Ω                                               | 75 Ω                                               | 75 Ω                                               |
| <b>Video</b>                |                                                    |                                                    |                                                    |
| Max. Bandwidth              | 450 MHz                                            | 450 MHz                                            | 450 MHz                                            |
| Max. Resolution             | Up to 2048 x 1536                                  | Up to 2048 x 1536                                  | Up to 2048 x 1536                                  |
| Max. Distance               | Up to 30 m                                         | Up to 30 m                                         | Up to 30 m                                         |
| <b>Power</b>                |                                                    |                                                    |                                                    |
| Connectors                  | 1 x DC Jack                                        | 1 x DC Jack                                        | 1 x DC Jack                                        |
| Consumption                 | DC5V: 0.62W                                        | DC5V: 0.9W                                         | DC5V: 1.99W                                        |
| <b>Environmental</b>        |                                                    |                                                    |                                                    |
| Operating Temperature       | 0 - 50 °C                                          | 0 - 50 °C                                          | 0 - 50 °C                                          |
| Storage Temperature         | -20 - 60 °C                                        | -20 - 60 °C                                        | -20 - 60 °C                                        |
| Humidity                    | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b>  |                                                    |                                                    |                                                    |
| Housing                     | Metal                                              | Metal                                              | Metal                                              |
| Weight                      | 0.42 kg ( 0.93 lb )                                | 0.61 kg ( 1.34 lb )                                | 0.69 kg ( 1.52 lb )                                |
| Dimensions (L x W x H)      | 13.00 x 7.51 x 4.40 cm<br>(5.12 x 2.96 x 1.73 in.) | 20.00 x 7.51 x 4.40 cm<br>(7.87 x 2.96 x 1.73 in.) | 20.00 x 7.51 x 4.40 cm<br>(7.87 x 2.96 x 1.73 in.) |
| <b>Carton Lot</b>           | 20 pcs                                             | 20 pcs                                             | 20 pcs                                             |
| <b>Included Accessories</b> | 1x Power Adapter                                   |                                                    |                                                    |

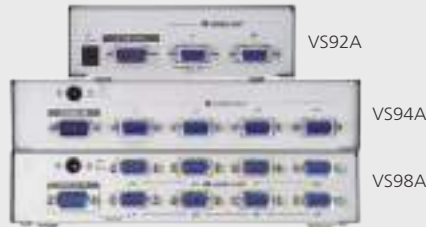
### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| VGA EDID Emulator | 2A-130G          | 10-19    |

## VS92A / VS94A / VS98A 2/4/8-Port VGA Splitter (350MHz)



Rear



### Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Superior video quality – up to 1920 x 1440@60Hz
- Supports VGA, XGA, SVGA, UXGA, WUXGA and Multisync monitors
- Supports 350 MHz bandwidth
- Cascadable to 3 levels – provides up to 512 video signals (VS98A)

### Specifications

| Function                    | VS92A                                              | VS94A                                              | VS98A                                              |
|-----------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Video Input</b>          |                                                    |                                                    |                                                    |
| Interfaces                  | 1 x HDB-15 Male (Blue)                             | 1 x HDB-15 Male (Blue)                             | 1 x HDB-15 Male (Blue)                             |
| Impedance                   | 75 Ω                                               | 75 Ω                                               | 75 Ω                                               |
| Max. Distance               | 1.8 m                                              | 1.8 m                                              | 1.8 m                                              |
| <b>Video Output</b>         |                                                    |                                                    |                                                    |
| Interfaces                  | 2 x HDB-15 Female (Blue)                           | 4 x HDB-15 Female (Blue)                           | 8 x HDB-15 Female (Blue)                           |
| Impedance                   | 75 Ω                                               | 75 Ω                                               | 75 Ω                                               |
| <b>Video</b>                |                                                    |                                                    |                                                    |
| Max. Bandwidth              | 350 MHz                                            | 350 MHz                                            | 350 MHz                                            |
| Max. Resolution             | Up to 1920 x 1440                                  | Up to 1920 x 1440                                  | Up to 1920 x 1440                                  |
| Max. Distance               | Up to 30 m                                         | Up to 30 m                                         | Up to 30 m                                         |
| <b>Power</b>                |                                                    |                                                    |                                                    |
| Connectors                  | 1 x DC Jack                                        | 1 x DC Jack                                        | 1 x DC Jack                                        |
| Consumption                 | DC9V: 1.15W                                        | DC9V: 3.28W                                        | DC9V: 5W                                           |
| <b>Environmental</b>        |                                                    |                                                    |                                                    |
| Operating Temperature       | 0 - 50 °C                                          | 0 - 50 °C                                          | 0 - 50 °C                                          |
| Storage Temperature         | -20 - 60 °C                                        | -20 - 60 °C                                        | -20 - 60 °C                                        |
| Humidity                    | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b>  |                                                    |                                                    |                                                    |
| Housing                     | Metal                                              | Metal                                              | Metal                                              |
| Weight                      | 0.42 kg ( 0.93 lb )                                | 0.61 kg ( 1.34 lb )                                | 0.69 kg ( 1.52 lb )                                |
| Dimensions (L x W x H)      | 13.00 x 7.51 x 4.40 cm<br>(5.12 x 2.96 x 1.73 in.) | 20.00 x 7.51 x 4.40 cm<br>(7.87 x 2.96 x 1.73 in.) | 20.00 x 7.51 x 4.40 cm<br>(7.87 x 2.96 x 1.73 in.) |
| <b>Carton Lot</b>           | 20 pcs                                             | 20 pcs                                             | 20 pcs                                             |
| <b>Included Accessories</b> | 1x Power Adapter                                   |                                                    |                                                    |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| VGA EDID Emulator | 2A-130G          | 10-19    |

## VS82 / VS84 2/4-Port VGA Splitter Wall Plate (Plastic) (250MHz)



### Features

- Connects 1 VGA input to 2/4 VGA outputs
- Superior video quality – up to 1920 x 1440
- Supports 250MHz bandwidth
- Cascadable to 3 levels - provides up to 64 video signals (VS84)
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

### Specifications

| Function                    | VS82                                               | VS84                                               |
|-----------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Video Input</b>          |                                                    |                                                    |
| Interfaces                  | 1 x HDB-15 Male (Blue)                             | 1 x HDB-15 Male (Blue)                             |
| Impedance                   | 75 $\Omega$                                        | 75 $\Omega$                                        |
| Max. Distance               | 1.8 m                                              | 1.8 m                                              |
| <b>Video Output</b>         |                                                    |                                                    |
| Interfaces                  | 2 x HDB-15 Female (Blue)                           | 4 x HDB-15 Female (Blue)                           |
| Impedance                   | 75 $\Omega$                                        | 75 $\Omega$                                        |
| <b>Video</b>                |                                                    |                                                    |
| Max. Bandwidth              | 250 MHz                                            | 250 MHz                                            |
| Max. Resolution             | Up to 1920 x 1440                                  | Up to 1920 x 1440                                  |
| Max. Distance               | Up to 30 m                                         | Up to 30 m                                         |
| <b>Power</b>                |                                                    |                                                    |
| Connectors                  | 1 x DC Jack                                        | 1 x DC Jack                                        |
| Consumption                 | DC9V: 1.02W                                        | DC9V: 1.93W                                        |
| <b>Environmental</b>        |                                                    |                                                    |
| Operating Temperature       | 0 - 50 °C                                          | 0 - 50 °C                                          |
| Storage Temperature         | -20 - 60 °C                                        | -20 - 60°C                                         |
| Humidity                    | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b>  |                                                    |                                                    |
| Housing                     | Plastic                                            | Plastic                                            |
| Weight                      | 0.14 kg ( 0.31 lb )                                | 0.15 kg ( 0.33 lb )                                |
| Dimensions (L x W x H)      | 8.76 x 11.46 x 3.33 cm<br>(3.45 x 4.51 x 1.31 in.) | 8.84 x 11.88 x 3.33 cm<br>(3.48 x 4.68 x 1.31 in.) |
| <b>Carton Lot</b>           | 20 pcs                                             | 20 pcs                                             |
| <b>Included Accessories</b> | 1x Power Adapter; 1x VGA Cable (optional)          |                                                    |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| VGA EDID Emulator | 2A-130G          | 10-19    |

## VS132 / VS102 2-Port VGA Splitter Wall Plate (350MHz / 250MHz)



### Features

- Connects 1 VGA input to 2 VGA outputs
- Superior video quality – up to 1920 x 1440
- Supports 350MHz (VS132) / 250MHz (VS102) bandwidth
- Cascadable to 3 levels – provides up to 8 video signals
- Long distance transmission – up to 65 m

### Specifications

| Function                    | VS132                                           | VS102                                           |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                 |                                                 |
| Interfaces                  | 1 x HDB-15 Male (Blue)                          | 1 x HDB-15 Male (Blue)                          |
| Impedance                   | 75 $\Omega$                                     | 75 $\Omega$                                     |
| Max. Distance               | 1.8 m                                           | 1.8 m                                           |
| <b>Video Output</b>         |                                                 |                                                 |
| Interfaces                  | 2 x HDB-15 Female (Blue)                        | 2 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 $\Omega$                                     | 75 $\Omega$                                     |
| <b>Video</b>                |                                                 |                                                 |
| Max. Bandwidth              | 350 MHz                                         | 250 MHz                                         |
| Max. Resolution             | Up to 1920 x 1440                               | Up to 1920 x 1440                               |
| Max. Distance               | Up to 65 m                                      | Up to 65 m                                      |
| <b>Power</b>                |                                                 |                                                 |
| Connectors                  | 1 x DC Jack                                     | 1 x DC Jack                                     |
| Consumption                 | 5.3 VDC: 0.42W                                  | DC9V: 1.22W                                     |
| <b>Environmental</b>        |                                                 |                                                 |
| Operating Temperature       | 0 - 50°C                                        | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                      | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                 |                                                 |
| Housing                     | Metal                                           | Metal                                           |
| Weight                      | 0.19 kg ( 0.42 lb )                             | 0.19 kg ( 0.42 lb )                             |
| Dimensions (L x W x H)      | 10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.) | 10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.) |
| <b>Carton Lot</b>           | 20 pcs                                          | 20 pcs                                          |
| <b>Included Accessories</b> | 1x Power Adapter                                |                                                 |

### Optional Accessories

| Description       | Part No. / Spec. | Page No. |
|-------------------|------------------|----------|
| VGA EDID Emulator | 2A-130G          | 10-19    |



# Video Extenders, Video Boosters

ATEN video extender solutions offer a full range of options that allow you to extend the distance between the source devices and displays in your video installations by up to 300m / 20km. They are ideal for all applications where remote video displays are required, allowing you to place your computers or source devices in a secure and safe environment. ATEN video extender solutions are available in all popular interfaces and with a variety of innovative features and exclusive technologies.



- **Networked AV**

ATEN networked AV solutions deliver visually lossless high-quality video with ultra-low latency over a standard Gigabit network. These flexible, scalable solutions remove distance and input/output limitations while making over IP AV system implementation easy and simple for all video over IP environments.

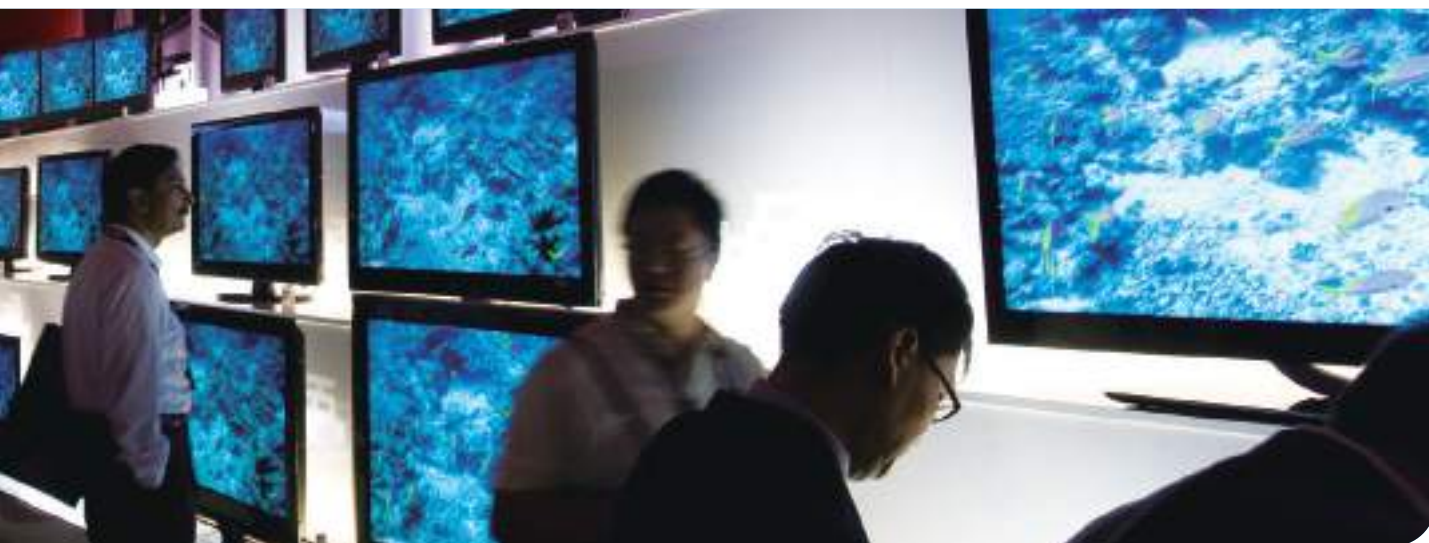
- **HDBaseT™ Extenders**

ATEN HDBaseT™ extenders are optimized for home and professional AV installations and provide a simple and efficient solution for transmitting Ultra HD signals, audio, 100Mb Ethernet, power and control signals through a single Cat 5e/6a up to 100 meters.

- **Wall Plates**

Wall plate extenders manage and deliver signals while concealing cables and keeping other equipment out of sight. ATEN's range of wall plate extension solutions deliver HDMI/DVI/VGA and audio signals via HDBaseT / Cat5e/6 / ATEN-2L-2910 up to 4K@100m (HDBaseT Class A), 4K@100m (HDBaseT Class B), and 1080p@40m, and are designed to meet US, EU, and MK standards.





- **Optical / AOC**

ATEN offers 4K HDMI and HDMI optical extender solutions that transmit 4K HDMI up to 10km and 1080p up to 20km, as well as a True 4K HDMI 2.0 Active Optical Cable that is EMI-resistant and fully compliant with HDCP 2.2 standards, meeting HDMI 2.0 specifications including 3D, deep color, and data rates up to 18 Gbps.

- **Cat5 / Cat6 Extenders**

ATEN provides a wide range of long distance extension solutions utilizing equalizer technology that connect via Cat5e/6/6a cables, including HDMI, HDMI/USB, HDMI/IR, DVI, Dual Link DVI with Audio, VGA, VGA with Audio, and VGA/Audio/RS-232 models.

- **Boosters**

ATEN Boosters amplify and transmit signals to increase distances in your AV installation. Solutions that support True 4K HDMI up to 20m/1080P up to 40m, and 1280x1024 VGA up to 70m, as well as other DVI and VGA models, are available.

## Specifications at a Glance

### Networked AV

| Connection                 | Over IP              |                      |                      |                      |
|----------------------------|----------------------|----------------------|----------------------|----------------------|
| Video Interface            | HDMI                 |                      |                      |                      |
| Model                      | VE8950T              | VE8950R              | VE8900T              | VE8900R              |
| Inputs to Outputs          | Multiple to Multiple | Multiple to Multiple | Multiple to Multiple | Multiple to Multiple |
| Max. Resolution / Distance | 4K@100m              | 4K@100m              | 1080p@100m           | 1080p@100m           |
| HDCP                       | 1.4                  | 1.4                  | 1.4                  | 1.4                  |
| Audio                      | • (HDMI / Stereo)    | • (HDMI / Stereo)    | • (HDMI / Stereo)    | • (HDMI / Stereo)    |
| RS-232 Channel             | •                    | •                    | •                    | •                    |
| IR Channel                 | •                    | •                    | •                    | •                    |
| USB Channel                | •                    | •                    | •                    | •                    |
| Scaler                     | N/A                  | •                    | N/A                  | •                    |

### HDBaseT™ Extenders

| Connection                 | HDBaseT (Class A)           |                        |                                             |                        |                        |                        |                        |
|----------------------------|-----------------------------|------------------------|---------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| Video Interface            | HDMI                        | HDMI                   | HDMI & VGA                                  | HDMI                   | HDMI                   | HDMI                   | HDMI                   |
| Model                      | VE1832                      | VE816R                 | VE2812T                                     | VE2812R                | VE814A                 | VE813A                 | VE811                  |
| Inputs to Outputs          | 1 to 1                      | 1 output               | 2 Inputs                                    | 1 output               | 1 to 3                 | 1 to 1                 | 1 to 1                 |
| Max. Resolution / Distance | True 4K@100m;<br>1080p@100m | 4K@100m;<br>1080p@100m | 4K@100m;<br>1080p@100m;<br>1920 x 1200@100m | 4K@100m;<br>1080p@100m | 4K@100m;<br>1080p@100m | 4K@100m;<br>1080p@100m | 4K@100m;<br>1080p@100m |
| HDR                        | •                           | N/A                    | N/A                                         | N/A                    | N/A                    | N/A                    | N/A                    |
| HDCP                       | 2.2                         | 2.2                    | 2.2                                         | 2.2                    | 2.2                    | 2.2                    | 2.2                    |
| Long Reach Mode**          | • (Active)                  | • (Passive)            | • (Active)                                  | • (Active)             | • (Active)             | • (Passive)            | • (Active)             |
| Audio                      | • (HDMI / Stereo)           | • (HDMI)               | • (HDMI / Stereo)                           | • (HDMI / Stereo)      | • (HDMI)               | • (HDMI)               | • (HDMI)               |
| RS-232 Channel             | •                           | •                      | •                                           | •                      | •                      | N/A                    | N/A                    |
| IR Channel                 | •                           | •                      | •                                           | •                      | •                      | N/A                    | N/A                    |
| USB Channel                | • (USB2.0)                  | N/A                    | N/A                                         | N/A                    | N/A                    | • (USB2.0)             | N/A                    |
| Ethernet Channel           | •                           | N/A                    | N/A                                         | N/A                    | •                      | N/A                    | N/A                    |
| POH                        | N/A                         | N/A                    | N/A                                         | N/A                    | N/A                    | N/A                    | N/A                    |
| Scaler                     | N/A                         | •                      | N/A                                         | N/A                    | N/A                    | N/A                    | N/A                    |

| Connection                 | HDBaseT™ (Class A)*         |                        | HDBaseT™ (Class B)*       |           |                           |                      |                               |
|----------------------------|-----------------------------|------------------------|---------------------------|-----------|---------------------------|----------------------|-------------------------------|
| Video Interface            | HDMI                        | HDMI                   | HDMI                      | HDMI      | HDMI                      | DisplayPort          | DVI                           |
| Model                      | VE1812                      | VE812                  | VE1830                    | VE805R    | VE801 / VE802             | VE901                | VE601                         |
| Inputs to Outputs          | 1 to 1                      | 1 to 1                 | 1 to 1                    | 1 output  | 1 to 1                    | 1 to 1               | 1 to 1                        |
| Max. Resolution / Distance | 4K@100m;<br>1080p@100m      | 4K@100m;<br>1080p@100m | True 4K@40m;<br>1080p@70m | 1080p@70m | 4K@40m;<br>1080p@70m      | 4K@40m;<br>1080p@70m | 1920 x 1200@40m;<br>1080p@70m |
| HDR                        | N/A                         | N/A                    | •                         | N/A       | N/A                       | N/A                  | N/A                           |
| HDCP                       | 2.2                         | 2.2                    | 2.2                       | 1.4       | 2.2                       | 1.4                  | 1.4                           |
| Long Reach Mode**          | • (Active)                  | • (Passive)            | N/A                       | N/A       | N/A                       | N/A                  | N/A                           |
| Audio                      | • (HDMI)                    | • (HDMI)               | • (HDMI)                  | • (HDMI)  | • (HDMI)                  | • (DisplayPort)      | N/A                           |
| RS-232 Channel             | •                           | N/A                    | •                         | •         | • (VE802)                 | N/A                  | N/A                           |
| IR Channel                 | •                           | N/A                    | N/A                       | •         | • (VE802)                 | N/A                  | N/A                           |
| USB Channel                | N/A                         | N/A                    | N/A                       | N/A       | N/A                       | N/A                  | N/A                           |
| Ethernet Control           | N/A                         | N/A                    | N/A                       | N/A       | N/A                       | N/A                  | N/A                           |
| POH                        | PSE: VE1812T<br>PD: VE1812R | N/A                    | N/A                       | N/A       | PSE: VE802T<br>PD: VE802R | N/A                  | N/A                           |
| Scaler                     | N/A                         | N/A                    | N/A                       | •         | N/A                       | N/A                  | N/A                           |

## Wall Plates

| Connection                 | HDBaseT™ (Class A)*    |                        | HDBaseT™ (Class B)*  |                      |
|----------------------------|------------------------|------------------------|----------------------|----------------------|
| Video Interface            | HDMI & VGA             | HDMI & VGA             | HDMI                 | HDMI                 |
| Type                       | MK / EU                | US                     | MK / EU              | US                   |
| Model                      | VE2812EUT              | VE2812UST              | VE1801EUT            | VE1801UST            |
| Inputs to Outputs          | 2 inputs               | 2 inputs               | 1input               | 1 input              |
| Max. Resolution / Distance | 4K@100m;<br>1080p@100m | 4K@100m;<br>1080p@100m | 4K@40m;<br>1080p@70m | 4K@40m;<br>1080p@70m |
| HDCP                       | 2.2                    | 2.2                    | 2.2                  | 2.2                  |
| Audio                      | • (HDMI / Stereo)      | • (HDMI / Stereo)      | • (HDMI)             | •(HDMI)              |
| Long Reach Mode**          | • (Active)             | • (Active)             | N/A                  | N/A                  |
| RS-232 Channel             | •                      | •                      | •                    | •                    |
| IR Channel                 | •                      | •                      | N/A                  | N/A                  |

| Connection                 | Cat 5 / Cat 6           |                         |                                        |                                        |                                      |                                      |
|----------------------------|-------------------------|-------------------------|----------------------------------------|----------------------------------------|--------------------------------------|--------------------------------------|
| Video Interface            | HDMI                    | HDMI                    | DVI                                    | DVI                                    | VGA                                  | VGA                                  |
| Type                       | MK / EU                 | US                      | MK / EU                                | US                                     | MK / EU                              | US                                   |
| Model                      | VE807                   | VE806                   | VE607                                  | VE606                                  | VE157                                | VE156                                |
| Inputs to Outputs          | 1 to 1                  | 1 to 1                  | 1 to 1                                 | 1 to 1                                 | 1 to 1                               | 1 to 1                               |
| Max. Resolution / Distance | 1080p@40m;<br>1080i@60m | 1080p@40m;<br>1080i@60m | 1920 x<br>1200@40m;<br>1280 x 1024@60m | 1920 x<br>1200@40m;<br>1280 x 1024@60m | 1920 x 1200@30m;<br>1280 x 1024@150m | 1920 x 1200@30m;<br>1280 x 1024@150m |
| HDCP                       | 1.4                     | 1.4                     | 1.4                                    | 1.4                                    | N/A                                  | N/A                                  |
| Audio                      | • (HDMI / Stereo)       | • (HDMI / Stereo)       | • (Stereo)                             | • (Stereo)                             | • (Stereo)                           | • (Stereo)                           |
| RS-232 Channel             | N/A                     | N/A                     | N/A                                    | N/A                                    | N/A                                  | N/A                                  |
| IR Channel                 | N/A                     | N/A                     | N/A                                    | N/A                                    | N/A                                  | N/A                                  |

## Wireless

| Connection                 | Wireless    |             |                  |             |
|----------------------------|-------------|-------------|------------------|-------------|
| Video Interface            | HDMI        | HDMI        | HDMI & Component | HDMI        |
| Model                      | VE819       | VE849       | VE829            | VE809       |
| Inputs to Outputs          | 1 to 1      | 2 to 5      | 5 to 2           | 2 to 2      |
| Max. Resolution / Distance | 1080p@10m   | 1080p@30m   | 1080p@30m        | 1080p@30m   |
| HDR                        | N/A         | N/A         | N/A              | N/A         |
| HDCP                       | 1.4         | 1.4         | 1.4              | 1.4         |
| Audio                      | • (HDMI)    | • (HDMI)    | • (HDMI)         | • (HDMI)    |
| RS-232 Channel             | N/A         | N/A         | N/A              | N/A         |
| IR Channel                 | • (Control) | • (Control) | • (Control)      | • (Control) |
| USB Channel                | N/A         | N/A         | • (HID)          | N/A         |

## Optical / AOC

| Connection                 | Optical           |                   |            |            | AOC                                                    |
|----------------------------|-------------------|-------------------|------------|------------|--------------------------------------------------------|
| Video Interface            | HDMI              | HDMI              | HDMI       | HDMI       | HDMI                                                   |
| Model                      | VE883K1           | VE883K2           | VE882      | VE892      | VE7832 / VE7833 / VE7834 / VE7835                      |
| Inputs to Outputs          | 1 to 1            | 1 to 1            | 1 to 1     | 1 to 1     | 1 to 1                                                 |
| Max. Resolution / Distance | 4K@300m           | 4K@10km           | 1080p@600m | 1080p@20km | True 4K@15m; True 4K@30m;<br>True 4K@60m; True 4K@100m |
| HDR                        | N/A               | N/A               | N/A        | N/A        | •                                                      |
| HDCP                       | 2.2               | 2.2               | 1.4        | 1.4        | 2.2                                                    |
| Audio                      | • (HDMI / Stereo) | • (HDMI / Stereo) | • (HDMI)   | • (HDMI)   | • (HDMI)                                               |
| RS-232 Channel             | •                 | •                 | •          | •          | N/A                                                    |
| IR Channel                 | •                 | •                 | •          | •          | N/A                                                    |
| USB Channel                | • (USB2.0)        | • (USB2.0)        | N/A        | N/A        | N/A                                                    |
| Ethernet Channel           | •                 | •                 | N/A        | N/A        | N/A                                                    |

## Cat5 / Cat6 Extenders

| Connection                 | Cat5 / Cat6             |       |       |                                                                                      |                         |                 |
|----------------------------|-------------------------|-------|-------|--------------------------------------------------------------------------------------|-------------------------|-----------------|
| Video Interface            | HDMI                    |       |       | DVI                                                                                  |                         |                 |
| Model                      | VE800A                  | VE803 | VE810 | VE602                                                                                | VE600A                  | VE066           |
| Inputs to Outputs          | 1 to 1                  |       |       | 1 to 1                                                                               |                         |                 |
| Max. Resolution / Distance | 1080p@40m;<br>1080i@60m |       |       | Dual Link:<br>2560 x 1600@40m<br>Single Link:<br>1920 x 1200@40m;<br>1280 x 1024@60m | 1080p@40m;<br>1080i@60m | 1920 x 1200@20m |
| Audio                      | • (HDMI)                |       |       | • (Stereo)                                                                           | • (Stereo)              | N/A             |
| RS-232 Channel             | N/A                     |       |       | N/A                                                                                  | N/A                     | N/A             |
| IR Channel                 | N/A                     | N/A   | •     | N/A                                                                                  | N/A                     | N/A             |
| USB Channel                | N/A                     | •     | N/A   | N/A                                                                                  | N/A                     | N/A             |

| Connection                 | Cat5 / Cat6                          |                                      |                                     |                                       |                                      |        |
|----------------------------|--------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|--------|
| Video Interface            | VGA                                  |                                      |                                     |                                       |                                      |        |
| Model                      | VE022                                | VE150A                               | VE170                               | VE170Q                                | VE200                                |        |
| Inputs to Outputs          | 1 to 1                               |                                      |                                     |                                       |                                      | 1 to 2 |
| Max. Resolution / Distance | 1920 x 1200@30m;<br>1280 x 1024@150m | 1920 x 1200@30m;<br>1280 x 1024@150m | 1920 x 1200@30m;<br>1024 x 768@300m | 1920 x 1200@150m;<br>1280 x 1024@300m | 1920 x 1200@30m;<br>1280 x 1024@200m |        |
| Audio                      | •                                    | N/A                                  | •                                   | N/A                                   | •                                    |        |
| RS-232 Channel             | N/A                                  | N/A                                  | N/A                                 | N/A                                   | •                                    |        |
| IR Channel                 | N/A                                  | N/A                                  | N/A                                 | N/A                                   | N/A                                  |        |
| USB Channel                | N/A                                  | N/A                                  | N/A                                 | N/A                                   | N/A                                  |        |

## Boosters

| Video Interface            | DisplayPort           | HDMI                   | DVI                                 | VGA                                |
|----------------------------|-----------------------|------------------------|-------------------------------------|------------------------------------|
| Model                      | VB905                 | VB800                  | VE560                               | VB100                              |
| Inputs to Outputs          | 1 to 1                | 1 to 1                 | 1 to 1                              | 1 to 1                             |
| Max. Resolution / Distance | 4K@60Hz (4:4:4) / 10m | 4K@60 Hz (4:4:4) / 20m | 1920 x 1200@30m;<br>1280 x 1024@50m | 1920 x 1200@30m<br>1280 x 1024@70m |
| HDCP                       | 2.2                   | 2.2                    | 1.4                                 | N/A                                |
| HDR                        | •                     | •                      | N/A                                 | N/A                                |

\* Ensure high quality maximum distance video transmission with ATEN HDBaseT Cat6, 2L-2910.

\*\* Models marked Active provide Long Reach Mode support which can be activated via a switch on the unit. Models marked Passive provide automatic Long Reach Mode support when activated by another device.



## Why Choose ATEN's Video over IP Solution?

The VE8900 / VE8950 delivers visually lossless 1080p / 4K AV signals with low latency over long distance via a standard Gigabit network.

The solution is designed to address the challenges that system integrators encounter when implementing AV over IP solutions and provides an effective, easy-to-use, and economical digital signage solution with the following features and advantages:



### Limitless Flexibility and Scalability

From a simple point-to-point setup, to hundreds of endpoints, the VE8900 / VE8950 offers flexibility, scalability and multi-functionality in extender, splitter, matrix switch, and video wall applications.



### Go Farther for Less with Daisy Chaining

Easily expand your AV network coverage without cable clutter or extra network switches while also lowering per-port costs.



### No Complicated IP Setup

The VE8900 / VE8950 allows you to effortlessly switch input sources via top panel pushbuttons / ID display and offers simple configuration that requires no extensive IT experience.



### No Additional Server PCs or Software Required

Effortlessly manage your AV over IP system by logging in to any receiver or transmitter from the web GUI.



### Scheduling Management

Pre-plan display schedules and manage all events in the calendar to as detailed as minute intervals, as well as effortlessly manage profiles through grouping individual receivers or video walls.

# VE8900T / VE8900R VE8950T / VE8950R

HDMI over IP Transmitter / Receiver (1080p@100 m)  
4K HDMI over IP Transmitter / Receiver (4K@100 m)

100 m



## Features

- Delivers visually lossless high-quality video up to 1080p @ 60 Hz (VE8900) / 4K @ 30 Hz 4:4:4 (VE8950)
- Ensures stunning quality video using ATEN advanced video lossless compression technology
- Extends AV connections from a simple point-to-point to a multi-point to multi-point setup via LAN without distance limitations
- Offers multi-functionality in extender, splitter, matrix switch, video wall and daisy chain applications
- Mix and match the latest 4K displays and 1080p screens. The built-in scaler automatically scales incoming video signals to match the maximum resolution of the connected display devices<sup>1</sup>
- No additional server PCs, control boxes, or software/drivers are needed
- Connects multiple displays through a single port to utilize every port of the network switch and maximize their value<sup>2</sup>
- Easily switches layout profiles, preview and drag-and-drop video sources via the intuitive web GUI
- For VE8900T/8950T – separate audio signal can be embedded into the HDMI stream
- For VE8900R/8950R – audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Multiple control methods – the system can be managed via Ethernet or top-panel pushbuttons
- Integrated solution – Compatible with ATEN Control System, allowing users to directly operate VE8900/8950 via CLI Telnet or RS-232 protocol
- Offers an user-friendly scheduling management function for users to pre-plan the display schedule

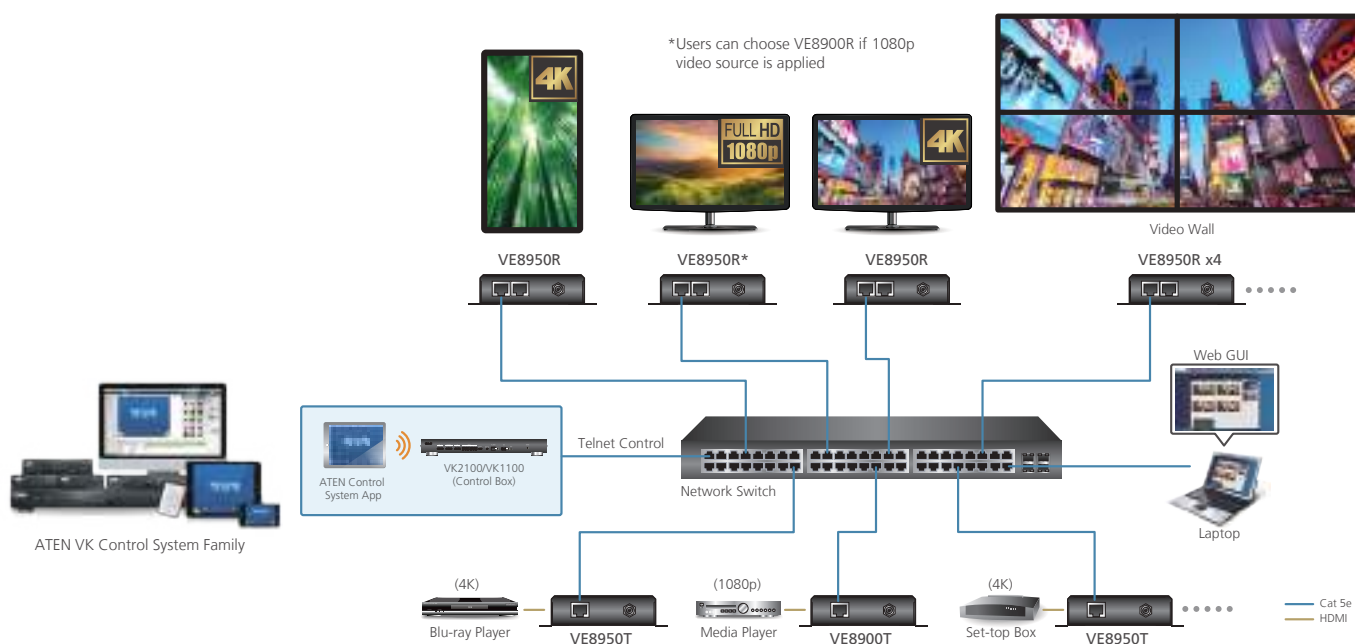
Front (VE8950)

Rear (VE8950)



## Setup > VE8900 / VE8950

Note: 1. VE8900R supports up to 1080p. Downscaling from 4K to 1080p is not available on this model.  
2. Depending on your network architecture, we recommend daisy chaining up to 30 units. Please contact ATEN representatives for more details.





## Specifications

| Function                               | VE8900R                                                                                                            | VE8950R                                                                                                       | VE8900T                                                                                                            | VE8950T                                                                                                                                                    |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input                            |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Interfaces                             | N/A                                                                                                                |                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                     |                                                                                                                                                            |
| Impedance                              | N/A                                                                                                                |                                                                                                               | 100 Ω                                                                                                              |                                                                                                                                                            |
| Max. Distance                          | N/A                                                                                                                |                                                                                                               | 1.8 m                                                                                                              |                                                                                                                                                            |
| Video Output                           |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                     |                                                                                                               | N/A                                                                                                                |                                                                                                                                                            |
| Impedance                              | 100 Ω                                                                                                              |                                                                                                               | N/A                                                                                                                |                                                                                                                                                            |
| Video                                  |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Max. Data Rate                         | Average: 150 ~ 500Mbps                                                                                             |                                                                                                               | Average: 150 ~ 500Mbps                                                                                             |                                                                                                                                                            |
| Compliance                             | HDMI<br>HDCP Compatible                                                                                            | HDMI (4K)<br>HDCP Compatible                                                                                  | HDMI<br>HDCP Compatible                                                                                            | HDMI (4K)<br>HDCP Compatible                                                                                                                               |
| Max. Resolutions / Distance            | Up to 1080p@100m<br>(Cat 5e/6, point to point)                                                                     | Up to 4K@100m (Cat 5e/6, point to point)<br><b>*4K supported:</b><br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 1080p@100m<br>(Cat 5e/6, point to point)                                                                     | Up to 4K@100m (Cat 5e/6, point to point)<br><b>*4K supported:</b><br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| Audio                                  |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Input                                  | N/A                                                                                                                |                                                                                                               | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green)                                              |                                                                                                                                                            |
| Output                                 | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green)                                              |                                                                                                               | N/A                                                                                                                |                                                                                                                                                            |
| Connectors                             |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Unit to Unit                           | 2 x RJ-45 Female                                                                                                   |                                                                                                               | 1 x RJ-45 Female                                                                                                   |                                                                                                                                                            |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                   |                                                                                                               | 1 x DC Jack (Black) with locking                                                                                   |                                                                                                                                                            |
| Control                                |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| IR                                     | 1 x Mini Stereo Jack Female (Black)                                                                                |                                                                                                               | 1 x Mini Stereo Jack Female (Black)                                                                                |                                                                                                                                                            |
| RS-232                                 | Connector: 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control |                                                                                                               | Connector: 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control |                                                                                                                                                            |
| USB                                    | 2 x USB Type A Female (Black)                                                                                      |                                                                                                               | 1 x USB Type B Female (White)                                                                                      |                                                                                                                                                            |
| Power Consumption                      | DC5V: 4.28W<br>(without USB peripheral device loading)                                                             | DC5V: 4.53W<br>(without USB peripheral device loading)                                                        | DC5V: 3.07W                                                                                                        | DC5V: 3.08W                                                                                                                                                |
| Environmental                          |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Operating Temperature                  | 0 - 40°C                                                                                                           |                                                                                                               | 0 - 40°C                                                                                                           |                                                                                                                                                            |
| Storage Temperature                    | -20 - 60°C                                                                                                         |                                                                                                               | -20 - 60°C                                                                                                         |                                                                                                                                                            |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                         |                                                                                                               | 0 - 80% RH, Non-Condensing                                                                                         |                                                                                                                                                            |
| Physical Properties                    |                                                                                                                    |                                                                                                               |                                                                                                                    |                                                                                                                                                            |
| Housing                                | Metal                                                                                                              |                                                                                                               | Metal                                                                                                              |                                                                                                                                                            |
| Weight                                 | 0.49 kg (1.08 lb)                                                                                                  |                                                                                                               | 0.50 kg (1.10 lb)                                                                                                  |                                                                                                                                                            |
| Dimensions (L x W x H) with bracket    | 14.02 x 12.30 x 3.06 cm<br>(5.52 x 4.84 x 1.20 in.)                                                                |                                                                                                               | 14.02 x 12.30 x 3.06 cm<br>(5.52 x 4.84 x 1.20 in.)                                                                |                                                                                                                                                            |
| Dimensions (L x W x H) without bracket | 13.60 x 10.10 x 2.96 cm<br>(5.35 x 3.98 x 1.14 in.)                                                                |                                                                                                               | 13.60 x 10.10 x 2.96 cm<br>(5.35 x 3.98 x 1.14 in.)                                                                |                                                                                                                                                            |
| Carton Lot                             | 5 pcs                                                                                                              |                                                                                                               | 5 pcs                                                                                                              |                                                                                                                                                            |
| Included Accessories                   | 1x RS-232 Terminal Block; 1x 5V Power Adapter                                                                      |                                                                                                               |                                                                                                                    |                                                                                                                                                            |

Note: Supports 1920x1200@60Hz reduced blanking (ATEN Default EDID only)

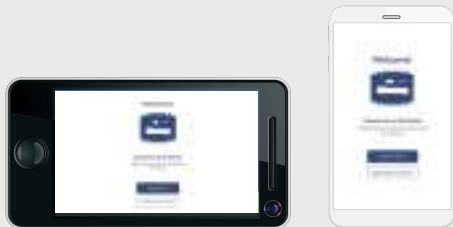
## Optional Accessories

| Description                       | Part No. / Spec. | Page No. |
|-----------------------------------|------------------|----------|
| HDMI Cable*                       | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable               | 2L-2910          | 12-1     |
| Low Skew Cable                    | 2L-2801          | 12-3     |
| LockPro™ (HDMI Cable Lock)        | 2X-EA12          | 13-1     |
| Full Range IR Receiver (30-56KHz) | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56KHz)  | 2XRT-0004G       | 13-2     |

\*Cables with different lengths are available, please refer to 12-5.



## VE8900 / VE8950 Mobile Control App



### VE8900 / VE8950 Mobile Control App



Android



iOS

### Turn your mobile phone into a remote control for VE8900 / VE8950

The VE8900 / 8950 Mobile Control App is a free app that supports iOS and Android operating systems. This mobile app provides you an intuitive operation and direct access to VE Manager anytime anywhere.

### Features

- Allows users to preview the video source content from transmitter side and monitor the status of receiver and video wall



- Effectively switches source content to modify the display content



- Allows users to check the display schedule and rearrange the schedule if necessary



- Integrates "Find My VE" for simple access



- Provides firmware update reminder



# HDBaseT Extenders



## Less is More with HDBaseT

HDBaseT technology is ideal for professional AV installations and provides a simple and cost-effective solution to transmit 4K ultra high definition (UHD) signals up to 100 meters.



### Simplified Cabling

Implements HDBaseT™ extension technology to connect transmitter and receiver units over one single Cat 6/6a cable



### Ultra HD and High Quality Audio

Supports Full HD, 3D and 4K x 2K, Dolby TrueHD and DTS HD Master Audio



### Long Distance Transmission

Delivers uncompressed video & audio using one Cat 6/6a cable up to 100 – 150 m



### Anti-jamming Design

HDBaseT Anti-jamming technology resists signal interference during high-quality video transmissions



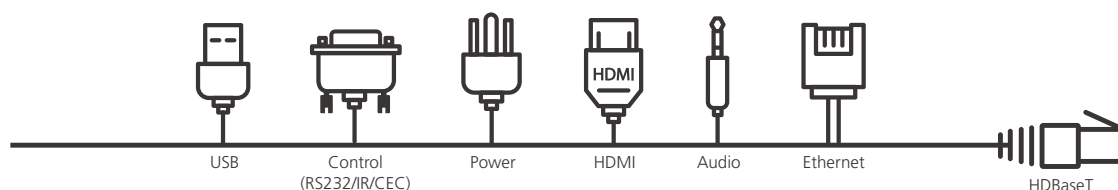
### Flexible Control

Provides multiple control signals: CEC, RS-232, Ethernet, IR and USB 2.0



### POH (Power over HDBaseT)

Supplies power from the Power Source Equipment (PSE) to the Power Device (PD) over long distances via one Cat 6/6a cable



# VE1832 True 4K HDMI/USB HDBaseT 2.0 Extender 100 m (True 4K@100m) (HDBaseT Class A)



## Features

- Extends True 4K HDMI signal up to 100m over a single Cat 6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI 2.0 (3D, Deep Color, True 4k)
- HDCP 2.2 compliant
- Superior video quality – up to True 4K resolutions of 3840 x 2160 @ 60Hz (4:4:4)
- Supports multiple independent audio channels – HDMI, Stereo Audio, and SPDIF for higher quality of surround sound
- **HDBaseT Long Reach Mode** – extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- **EDID Expert™** – selects optimum EDID settings for high-quality display and use of optimum video resolution
- Supports wide screen format
- Compliant with USB 2.0 standard for a wide range of USB peripherals compatibility
- Extends Ethernet communication using the Ethernet pass-through port
- Firmware upgradable
- Built-in 8KV / 15 KV ESD protection
- Plug-and-play
- Rack-mountable

## Specifications

| Function                               | VE1832R                                                                                                                                                                                                  | VE1832T                                                                                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Interfaces                             | N/A                                                                                                                                                                                                      | 1 x HDMI Type A Female (Black)                                                                                                                                                                           |
| Impedance                              | N/A                                                                                                                                                                                                      | 100 Ω                                                                                                                                                                                                    |
| Max. Distance                          | N/A                                                                                                                                                                                                      | 1.8 m                                                                                                                                                                                                    |
| <b>Video Output</b>                    |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                                           | N/A                                                                                                                                                                                                      |
| Impedance                              | 100 Ω                                                                                                                                                                                                    | N/A                                                                                                                                                                                                      |
| <b>Video</b>                           |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                            | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                            |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                                  | 340 MHz                                                                                                                                                                                                  |
| Compliance                             | HDMI (3D, Deep Color, True 4K); HDCP Compatible Consumer Electronics Control (CEC)                                                                                                                       | HDMI (3D, Deep Color, True 4K); HDCP Compatible Consumer Electronics Control (CEC)                                                                                                                       |
| Max. Resolution                        | True 4K: 3840 x 2160 @ 60Hz (4:4:4)                                                                                                                                                                      | True 4K: 3840 x 2160 @ 60Hz (4:4:4)                                                                                                                                                                      |
| Max. Resolutions / Distance            | Up to True 4K & 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to True 4K & 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Input                                  | N/A                                                                                                                                                                                                      | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green)<br>1 x SPDIF Toslink Female (Black)                                                                                                |
| Output                                 | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green)<br>1 x SPDIF Toslink Female (Black)<br>1 x SPDIF Coaxial Female (Red)                                                              | N/A                                                                                                                                                                                                      |
| <b>Connectors</b>                      |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                                         | 1 x RJ-45 Female                                                                                                                                                                                         |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                                         | 1 x DC Jack (Black) with locking                                                                                                                                                                         |
| <b>Control</b>                         |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| RS-232                                 | <b>Connector:</b> 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control                                                                                | <b>Connector:</b> 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control                                                                                |
| IR                                     | 1 x Mini Stereo Jack Female (Black)<br>30 ~ 56KHz Full Range Transmission                                                                                                                                | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                                      |
| Ethernet Channel                       | 1 x RJ-45 Female                                                                                                                                                                                         | 1 x RJ-45 Female                                                                                                                                                                                         |
| USB Channel                            | 3 x USB Type A Female (Black)<br>(2 ports for USB keyboard/mouse; 1 port for USB peripherals.)                                                                                                           | 1 x USB Type B Female (White)                                                                                                                                                                            |
| <b>Power Consumption</b>               | DC5V: 9.82W                                                                                                                                                                                              | DC5V: 4.05W                                                                                                                                                                                              |
| <b>Environmental</b>                   |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                                 | 0 - 40°C                                                                                                                                                                                                 |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                               | -20 - 60°C                                                                                                                                                                                               |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                               |
| <b>Physical Properties</b>             |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| Housing                                | Metal                                                                                                                                                                                                    | Metal                                                                                                                                                                                                    |
| Weight                                 | 0.62 kg ( 1.37 lb )                                                                                                                                                                                      | 0.61 kg ( 1.34 lb )                                                                                                                                                                                      |
| Dimensions (L x W x H) with bracket    | 16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)                                                                                                                                                         | 17.02 x 14.69 x 3.00 cm (6.7 x 5.78 x 1.18 in.)                                                                                                                                                          |
| Dimensions (L x W x H) without bracket | 16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)                                                                                                                                                         | 16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)                                                                                                                                                         |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                                                                                    | 5 pcs                                                                                                                                                                                                    |
| <b>Included Accessories</b>            | 1x IR Transmitter, 1x IR Receiver, 2x RS-232 Terminal Blocks, 8x Foot Pads, 2x Power Adapters                                                                                                            |                                                                                                                                                                                                          |
| <b>Optional Accessories</b>            | Please refer to 9-57                                                                                                                                                                                     |                                                                                                                                                                                                          |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE1830 True 4K HDMI HDBaseT-Lite Extender (True 4K@40m) (HDBaseT Class B) 70m



Front



Rear



## Features

- Extends True 4K HDMI signal up to 40m over a single Cat 6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI 2.0a (3D, Deep Color, True 4k); HDCP 2.2 compliant
- Superior video quality – up to True 4K resolutions of 3840 x 2160 @ 60Hz (4:4:4)
- Supports HDR
- Supports PoC – supplies power from VE1830T to VE1830R
- Features RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Plug-and-play
- Rack-mountable

## Specifications

| Function                                            | VE1830R                                                                                                                                        | VE1830T                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                                  |                                                                                                                                                |                                                                                                                                                |
| Interfaces                                          | N/A                                                                                                                                            | 1 x HDMI Type A Female (Black)                                                                                                                 |
| Impedance                                           | N/A                                                                                                                                            | 100 Ω                                                                                                                                          |
| Max. Distance                                       | N/A                                                                                                                                            | 1.8 m                                                                                                                                          |
| <b>Video Output</b>                                 |                                                                                                                                                |                                                                                                                                                |
| Interfaces                                          | 1 x HDMI Type A Female (Black)                                                                                                                 | N/A                                                                                                                                            |
| Impedance                                           | 100 Ω                                                                                                                                          | N/A                                                                                                                                            |
| <b>Video</b>                                        |                                                                                                                                                |                                                                                                                                                |
| Max. Data Rate                                      | 10.2 Gbps (3.4Gbps per lane)                                                                                                                   | 10.2 Gbps (3.4Gbps per lane)                                                                                                                   |
| Max. Pixel Clock                                    | 340 MHz                                                                                                                                        | 340 MHz                                                                                                                                        |
| Compliance                                          | HDMI (3D, Deep Color, True 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                        | HDMI (3D, Deep Color, True 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                        |
| Max. Resolution                                     | True 4K: 3840 x 2160 @ 60Hz (4:4:4)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | True 4K: 3840 x 2160 @ 60Hz (4:4:4)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| Max. Resolutions / Distance                         | Up to True 4K & 4K@35m (Cat 5e/6) /<br>40m (Cat 6a/ATEN 2L-2910 Cat6);<br>1080p@60m (Cat 5e/6) / 70m<br>(Cat6a/ATEN 2L-2910 Cat6)              | Up to True 4K & 4K@35m (Cat 5e/6) /<br>40m (Cat 6a/ATEN 2L-2910 Cat6);<br>1080p@60m (Cat 5e/6) / 70m<br>(Cat6a/ATEN 2L-2910 Cat6)              |
| <b>Audio</b>                                        |                                                                                                                                                |                                                                                                                                                |
| Input                                               | N/A                                                                                                                                            | 1 x HDMI Type A Female (Black)                                                                                                                 |
| Output                                              | 1 x HDMI Type A Female (Black)                                                                                                                 | N/A                                                                                                                                            |
| <b>Connectors</b>                                   |                                                                                                                                                |                                                                                                                                                |
| Unit To Unit                                        | 1 x RJ-45 Female                                                                                                                               | 1 x RJ-45 Female                                                                                                                               |
| Power                                               | 1 x DC Jack (Black) with locking                                                                                                               | 1 x DC Jack (Black) with locking                                                                                                               |
| <b>Control</b>                                      |                                                                                                                                                |                                                                                                                                                |
| RS-232 Channel                                      | Connector: 1 x Terminal Block, 3 pole                                                                                                          | Connector: 1 x Terminal Block, 3 pole                                                                                                          |
| <b>Power Consumption</b>                            |                                                                                                                                                |                                                                                                                                                |
| Switches                                            | DC 12V: 7W                                                                                                                                     | DC 12V: 3W                                                                                                                                     |
| Firmware Upgrade                                    | 1 x Slide Switch - ON/OFF                                                                                                                      | 1 x Slide Switch - ON/OFF                                                                                                                      |
| <b>Environmental</b>                                |                                                                                                                                                |                                                                                                                                                |
| Operating Temperature                               | 0 - 40°C                                                                                                                                       | 0 - 40°C                                                                                                                                       |
| Storage Temperature                                 | -20 - 60°C                                                                                                                                     | -20 - 60°C                                                                                                                                     |
| Humidity                                            | 0 - 80% RH, Non-Condensing                                                                                                                     | 0 - 80% RH, Non-Condensing                                                                                                                     |
| <b>Physical Properties</b>                          |                                                                                                                                                |                                                                                                                                                |
| Housing                                             | Metal                                                                                                                                          | Metal                                                                                                                                          |
| Weight                                              | 0.12 kg (0.27 lb)                                                                                                                              | 0.12 kg (0.27 lb)                                                                                                                              |
| Dimensions (L x W x H)                              | 12.05 x 7.4 x 1.95 cm (4.74 x 2.91 x 0.77 in.)                                                                                                 | 12.05 x 7.4 x 1.95 cm (4.74 x 2.91 x 0.77 in.)                                                                                                 |
| <b>Included Accessories</b>                         |                                                                                                                                                |                                                                                                                                                |
| <b>Optional Accessories</b>                         |                                                                                                                                                |                                                                                                                                                |
| 1x Power Adapter; 1x IR Transmitter; 1x IR Receiver |                                                                                                                                                |                                                                                                                                                |
| Please refer to 9-57                                |                                                                                                                                                |                                                                                                                                                |

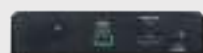
Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE816R 4K HDMI HDBaseT Receiver with Scaler

## (4K@100m) (HDBaseT Class A) 100 m



Front



Rear



## Features

- **HDBaseT Long Reach Mode** – activated by RS-232 commands, the Long Reach Mode extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- **Scaler** – scales videos of different resolutions to their optimal output for display
- **Video Wall** – features video wall profiles that allows for custom screen layouts via an intuitive web GUI<sup>1</sup>
- **Seamless Switch™** – close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions<sup>1</sup>
- Bi-directional RS-232 channel – allows for control using serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – IR transmission is processed one direction at a time<sup>2</sup>
- Cable Quality Tester – examines the category cable quality through signal level detection from HDBaseT Matrix Switches / output board to the VE816R.
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Rack-mountable

Note: 1.The Seamless Switch™ and video wall functions are available when the VE816R is used with ATEN HDBaseT Matrix.

2.Supports full-frequency IR signals from 30 KHz to 56 KHz.

## Specifications

| Function                               | VE816R                                                                                                                                                                                  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Output</b>                    |                                                                                                                                                                                         |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                          |
| Impedance                              | 100 Ω                                                                                                                                                                                   |
| <b>Video</b>                           |                                                                                                                                                                                         |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                           |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                 |
| Compliance                             | HDMI (3D, Deep Color,4K); HDCP Compatible; HDBaseT Compatible                                                                                                                           |
| Max. Resolutions / Distance            | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Connectors</b>                      |                                                                                                                                                                                         |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                        |
| Power                                  | 1 x DC Jack (Silver)                                                                                                                                                                    |
| <b>Control</b>                         |                                                                                                                                                                                         |
| IR Channel                             | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                     |
| RS-232 Channel                         | 1 x Terminal Block, 3 pole (Green)                                                                                                                                                      |
| <b>Switches</b>                        |                                                                                                                                                                                         |
| Firmware Upgrade                       | 1 x Slide Switch - ON/OFF                                                                                                                                                               |
| <b>Power Consumption</b>               |                                                                                                                                                                                         |
|                                        | DC5V: 9.09W                                                                                                                                                                             |
| <b>Environmental</b>                   |                                                                                                                                                                                         |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                              |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                              |
| <b>Physical Properties</b>             |                                                                                                                                                                                         |
| Housing                                | Metal                                                                                                                                                                                   |
| Weight                                 | 0.67 kg (1.48 lb)                                                                                                                                                                       |
| Dimensions (L x W x H) with bracket    | 16.80 x 14.69 x 3.00 cm<br>(6.61 x 5.78 x 1.18 in.)                                                                                                                                     |
| Dimensions (L x W x H) without bracket | 16.60 x 12.49 x 2.90 cm<br>(6.54 x 4.92 x 1.14 in.)                                                                                                                                     |
| <b>Carton Lot</b>                      |                                                                                                                                                                                         |
|                                        | 5 pcs                                                                                                                                                                                   |
| <b>Included Accessories</b>            |                                                                                                                                                                                         |
|                                        | 1x IR Transmitter; 1x IR Receiver; 1x Terminal Block; 1x Power Adapter                                                                                                                  |
| <b>Optional Accessories</b>            |                                                                                                                                                                                         |
|                                        | Please refer to 9-57                                                                                                                                                                    |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE805R HDMI HDBaseT-Lite Receiver with Scaler (1080p@70m) (HDBaseT Class B)



Front



Rear



## Features

- **HDBaseT Connectivity** – extends 4 x 4 HDBaseT connections over a long distance via single Cat 6/6a or ATEN 2L-2910 Cat6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmissions using HDBaseT technology
- **Scaler** – features a video scaling function to integrate a video wall seamlessly with various output video formats<sup>1</sup>
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions<sup>1</sup>
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI<sup>1</sup>
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device<sup>2</sup>

Note: 1. Seamless Switch™, scaler and video wall functions are only available when the VE805R is used with the VM8514 and VM3404H / VM3909H. If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

2. Bi-directional RS-232 Channel only available when VE805R is working with VM8514

## Specifications

| Function                    | VE805R                                                                 |
|-----------------------------|------------------------------------------------------------------------|
| <b>Video Output</b>         |                                                                        |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                         |
| Impedance                   | 100 Ω                                                                  |
| <b>Video</b>                |                                                                        |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps per lane)                                         |
| Max. Pixel Clock            | 225 MHz                                                                |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP 1.4 Compatible<br>HDBaseT Compatible     |
| Max. Resolutions / Distance | Up to 1080p @60m (Cat 5e/6); 70m (Cat 6a)                              |
| <b>Control</b>              |                                                                        |
| RS-232                      | 1 x Captive Screw Connector, 3 Pole                                    |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                    |
| <b>Connectors</b>           |                                                                        |
| Power                       | 1 x DC Jack (Sliver)                                                   |
| <b>Switches</b>             |                                                                        |
| Firmware Upgrade            | 1 x Slide Switch                                                       |
| <b>Power Consumption</b>    |                                                                        |
|                             | DC5V: 8.36W                                                            |
| <b>Environmental</b>        |                                                                        |
| Operating Temperature       | 0 - 50°C                                                               |
| Storage Temperature         | -20 - 60°C                                                             |
| Humidity                    | 0 - 80% RH, Non-Condensing                                             |
| <b>Physical Properties</b>  |                                                                        |
| Housing                     | Metal                                                                  |
| Weight                      | 0.81 kg ( 1.78 lb )                                                    |
| Dimensions (L x W x H)      | 17.74 x 16.92 x 4.20 cm(6.98 x 6.66 x 1.65 in.)                        |
| Carton Lot                  | 5 pcs                                                                  |
| Included Accessories        | 1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 1x Terminal Block |
| Optional Accessories        | Please refer to 9-57                                                   |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.



# VE2812T HDMI + VGA HDBaseT Transmitter (4K@100m) (HDBaseT Class A) 100 m



## Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI (3D, Deep color, 4K); HDCP compatible
- Superior video quality:
  - HDMI: 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
  - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- **Auto Switch Mode** – allows the VE2812T automatically switches to a newly plugged-in source
- Bi-directional RS-232 channel transmits signals
- Compatible Receivers – VE1812R, VE811R, VE814AR, VE801R, VE802R, VE601R, VE901R, or future ATEN HDBaseT Receivers
- Plug-and-play
- Rack-mountable

## Specifications

| Function                               | VE2812T                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                                                                                                                                                                                                         |
| Interfaces                             | 1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)                                                                                                                                                                                                                                                          |
| Impedance                              | HDMI: 100 Ω; HDB-15 (VGA): 75 Ω                                                                                                                                                                                                                                                                                         |
| Max. Distance                          | 1.8 m                                                                                                                                                                                                                                                                                                                   |
| <b>Video</b>                           |                                                                                                                                                                                                                                                                                                                         |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                                                                                                                                           |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                                                                                                                                                 |
| Compliance                             | HDMI (3D, Deep Color, 4K); HDCP Compatible; Consumer Electronics Control (CEC)                                                                                                                                                                                                                                          |
| Max. Resolutions / Distance            | HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6);<br>1920x1080@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                                                                                                                                                         |
| Input                                  | 1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)                                                                                                                                                                                                                                                     |
| <b>Connectors</b>                      |                                                                                                                                                                                                                                                                                                                         |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                                                                                                                                                        |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                                                                                                                                                        |
| <b>Control</b>                         |                                                                                                                                                                                                                                                                                                                         |
| RS-232                                 | <b>Connector:</b> 1 x Terminal Block, 3 pole<br><b>Baud Rate:</b> 19200, <b>Data Bits:</b> 8,<br><b>Stop Bits:</b> 1, no parity and flow control                                                                                                                                                                        |
| IR                                     | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                                                                                                                                                     |
| <b>Switches</b>                        |                                                                                                                                                                                                                                                                                                                         |
| Video Input Port Selection             | 1 x Push Button - HDMI, VGA and AUTO                                                                                                                                                                                                                                                                                    |
| Long Reach Mode Switch                 | 1 x Slide Switch - ON/OFF                                                                                                                                                                                                                                                                                               |
| Firmware Upgrade                       | 1 x Slide Switch - ON/OFF                                                                                                                                                                                                                                                                                               |
| <b>Power Consumption</b>               | DC5V: 2.99W                                                                                                                                                                                                                                                                                                             |
| <b>Environmental</b>                   |                                                                                                                                                                                                                                                                                                                         |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                                                                                                                                                |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                                                                                                                                              |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                              |
| <b>Physical Properties</b>             |                                                                                                                                                                                                                                                                                                                         |
| Housing                                | Metal                                                                                                                                                                                                                                                                                                                   |
| Weight                                 | 0.47 kg ( 1.04 lb )                                                                                                                                                                                                                                                                                                     |
| Dimensions (L x W x H) with bracket    | 14.32 x 12.30 x 3.00 cm ( 5.64 x 4.84 x 1.18 in.)                                                                                                                                                                                                                                                                       |
| Dimensions (L x W x H) without bracket | 13.60 x 10.10 x 2.90 cm ( 5.35 x 3.98 x 1.14 in.)                                                                                                                                                                                                                                                                       |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                                                                                                                                                                                                   |
| <b>Included Accessories</b>            | 1x RS-232 Terminal Block; 1x Power Adapter                                                                                                                                                                                                                                                                              |
| <b>Optional Accessories</b>            | Please refer to 9-57                                                                                                                                                                                                                                                                                                    |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.



# VE2812R HDMI HDBaseT Receiver with Audio De-Embedding (4K@100m) 100 m (HDBaseT Class A)



## Features

- Extends HDMI signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality – up to 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- **Supports HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Supports both Coaxial SPDIF and Stereo earphone jack output
- Manually turns on/off HDMI audio output
- Audio EDID Switching – 2ch Stereo, 5.1ch Surround sound, and AUTO
- Features RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Bi-directional IR signal transmission – IR transmission is processed one direction at a time, ranged from 30 kHz to 56 kHz
- Built-in 8KV / 15 KV ESD protection
- Supports wide screen format
- Plug-and-play
- Rack-mountable

## Specifications

| Function                                                 | VE2812R                                                                                                                                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Output</b>                                      |                                                                                                                                                                                             |
| Interfaces                                               | 1 x HDMI Type A Female (Black)                                                                                                                                                              |
| Impedance                                                | 100 $\Omega$                                                                                                                                                                                |
| <b>Video</b>                                             |                                                                                                                                                                                             |
| Max. Data Rate                                           | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                               |
| Max. Pixel Clock                                         | 340 MHz                                                                                                                                                                                     |
| Compliance                                               | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                          |
| Max. Resolutions / Distance                              | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                                             |                                                                                                                                                                                             |
| Output                                                   | 1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)<br>1 x SPDIF Coaxial Female (Orange)                                                                                    |
| <b>Connectors</b>                                        |                                                                                                                                                                                             |
| Unit To Unit                                             | 1 x RJ-45 Female                                                                                                                                                                            |
| Power                                                    | 1 x DC Jack (Black) with locking                                                                                                                                                            |
| <b>Control</b>                                           |                                                                                                                                                                                             |
| RS-232                                                   | <b>Connector:</b> 1 x Terminal Block, 3 pole<br><b>Baud Rate:</b> 19200, <b>Data Bits:</b> 8,<br><b>Stop Bits:</b> 1, no parity and flow control                                            |
| IR                                                       | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                         |
| <b>Power Consumption</b>                                 |                                                                                                                                                                                             |
| <b>Switches</b>                                          |                                                                                                                                                                                             |
| HDMI Mute                                                | 1 x Slide Switch - ON/OFF                                                                                                                                                                   |
| Audio EDID Selection                                     | 1 x Slide Switch - 2ch/5.1ch/AUTO                                                                                                                                                           |
| Selection                                                | 1 x Slide Switch - RS232 Bypass/Command mode                                                                                                                                                |
| Long Reach Mode Switch                                   | 1 x Slide Switch - ON/OFF                                                                                                                                                                   |
| Firmware Upgrade                                         | 1 x Slide Switch - ON/OFF                                                                                                                                                                   |
| <b>Environmental</b>                                     |                                                                                                                                                                                             |
| Operating Temperature                                    | 0 - 40°C                                                                                                                                                                                    |
| Storage Temperature                                      | -20 - 60°C                                                                                                                                                                                  |
| Humidity                                                 | 0 - 80% RH, Non-Condensing                                                                                                                                                                  |
| <b>Physical Properties</b>                               |                                                                                                                                                                                             |
| Housing                                                  | Metal                                                                                                                                                                                       |
| Weight                                                   | 0.46 kg (1.01lb)                                                                                                                                                                            |
| Dimensions (L x W x H) with bracket                      | 14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)                                                                                                                                            |
| Dimensions (L x W x H) without bracket                   | 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)                                                                                                                                            |
| <b>Carton Lot</b>                                        |                                                                                                                                                                                             |
| <b>Included Accessories</b>                              |                                                                                                                                                                                             |
| <b>Optional Accessories</b>                              |                                                                                                                                                                                             |
| 5 pcs                                                    |                                                                                                                                                                                             |
| 1x Power Adapter; 4x Foot Pads; 1x RS-232 Terminal Block |                                                                                                                                                                                             |
| Please refer to 9-57                                     |                                                                                                                                                                                             |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE814A HDMI HDBaseT Extender with Dual Output (4K@100m) (HDBaseT Class A) 100 m



## Features

- **HDBaseT Connectivity** – Extends HDMI signals to one local and two remote displays up to 100 m over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- **ATEN EDID Technology** – When both transmitter and receiver sides are connected, VE814A adopts the EDID values of the display connected to the VE814AT for high-quality output
- Bi-directional RS-232 channel transmits signals
- Two IR channels for IR signal transmission
- Allows Ethernet communication with the Ethernet pass-through port
- Rack-mountable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat5e/6 at resolutions up to 1080p

## Specifications

| Function                               | VE814AR                                                                                                                                                                                           | VE814AT                                                                                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input                            |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Interfaces                             | N/A                                                                                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                                                                                                    |
| Impedance                              | N/A                                                                                                                                                                                               | 100 Ω                                                                                                                                                                                             |
| Max. Distance                          | N/A                                                                                                                                                                                               | 1.8 m                                                                                                                                                                                             |
| Video Output                           |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Interfaces                             | 2 x HDMI Type A Female (Black)                                                                                                                                                                    | 1 x HDMI Type A Female (Black)                                                                                                                                                                    |
| Impedance                              | 100 Ω                                                                                                                                                                                             | 100 Ω                                                                                                                                                                                             |
| Video                                  |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                     | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                     |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                           | 340 MHz                                                                                                                                                                                           |
| Compliance                             | HDMI (3D, Deep Color, 4K); HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                  | HDMI (3D, Deep Color, 4K); HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                  |
| Max. Resolutions / Distance            | Up to 4K@70m (Cat 5e/6) / 100m<br>(Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@70m (Cat 5e/6) / 100m<br>(Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| Audio                                  |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Input                                  | N/A                                                                                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                                                                                                    |
| Output                                 | 2 x HDMI Type A Female (Black)                                                                                                                                                                    | 1 x HDMI Type A Female (Black)                                                                                                                                                                    |
| Connectors                             |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Unit to Uni                            | 1x RJ-45 Female                                                                                                                                                                                   | 1x RJ-45 Female                                                                                                                                                                                   |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                                  | 1 x DC Jack (Black) with locking                                                                                                                                                                  |
| Control                                |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| RS-232                                 | Connector: 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control                                                                                | Connector: 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control                                                                                |
| IR                                     | 2 x Mini Stereo Jack Female (Black)                                                                                                                                                               | 2 x Mini Stereo Jack Female (Black)                                                                                                                                                               |
| Ethernet                               | 1 x RJ-45 Female                                                                                                                                                                                  | 1 x RJ-45 Female                                                                                                                                                                                  |
| Switches                               |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Long Reach Mode Switch                 | 1 x Slide Switch - ON/OFF                                                                                                                                                                         | 1 x Slide Switch - ON/OFF                                                                                                                                                                         |
| Firmware Upgrade                       | 1 x Slide Switch - ON/OFF                                                                                                                                                                         | 1 x Slide Switch - ON/OFF                                                                                                                                                                         |
| Power Consumption                      | DC5V: 5.09W                                                                                                                                                                                       | DC5V: 7.87W                                                                                                                                                                                       |
| Environmental                          |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                          | 0 - 40°C                                                                                                                                                                                          |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                        | -20 - 60°C                                                                                                                                                                                        |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                        | 0 - 80% RH, Non-Condensing                                                                                                                                                                        |
| Physical Properties                    |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Housing                                | Metal                                                                                                                                                                                             | Metal                                                                                                                                                                                             |
| Weight                                 | 0.47 kg ( 1.04 lb )                                                                                                                                                                               | 0.45 kg ( 0.99 lb )                                                                                                                                                                               |
| Dimensions (L x W x H) with bracket    | 14.02 x 12.30 x 3.00 cm<br>(5.52 x 4.84 x 1.18 in.)                                                                                                                                               | 14.02 x 12.30 x 3.00 cm<br>(5.52 x 4.84 x 1.18 in.)                                                                                                                                               |
| Dimensions (L x W x H) without bracket | 13.60 x 10.10 x 2.90 cm<br>(5.35 x 3.98 x 1.14 in.)                                                                                                                                               | 13.60 x 10.10 x 2.90 cm<br>(5.35 x 3.98 x 1.14 in.)                                                                                                                                               |
| Carton Lot                             | 5 pcs                                                                                                                                                                                             | 5 pcs                                                                                                                                                                                             |
| Included Accessories                   | 1x IR Transmitter Cable; 1x IR Receiver Cable; 2x RS-232 Terminal Blocks; 2 Power Adapters                                                                                                        |                                                                                                                                                                                                   |
| Optional Accessories                   | Please refer to 9-58                                                                                                                                                                              |                                                                                                                                                                                                   |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE813A HDMI/USB HDBaseT Extender with ExtremeUSB® (4K@100m) (HDBaseT Class A) 100 m



## Features

- **HDBaseT Connectivity** – extends HDMI signals over a long distance via single 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- **ExtremeUSB®** – supports USB 2.0 high speed connections to provide touch panel control and file transfer functionality
- **USB 2.0 Support** – connects devices such as a keyboard, mouse, flash drive, printer, touch panel, USB 1.1 web camera and other USB devices that require moderate amounts of bandwidth
- **Rack-mountable**

## Specifications

| Function                    | VE813AR                                                                                                                                                           | VE813AT                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                   |                                                                                                                                                                   |
| Interfaces                  | N/A                                                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                                                                    |
| Impedance                   | N/A                                                                                                                                                               | 100 Ω                                                                                                                                                             |
| Max. Distance               | N/A                                                                                                                                                               | 1.8 m                                                                                                                                                             |
| <b>Video Output</b>         |                                                                                                                                                                   |                                                                                                                                                                   |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                    | N/A                                                                                                                                                               |
| Impedance                   | 100 Ω                                                                                                                                                             | N/A                                                                                                                                                               |
| <b>Video</b>                |                                                                                                                                                                   |                                                                                                                                                                   |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                                     | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                                     |
| Max. Pixel Clock            | Up to 340 MHz                                                                                                                                                     | Up to 340 MHz                                                                                                                                                     |
| Compliance                  | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                |
| Max. Resolutions / Distance | Up to 4K@70m (Cat 5e/6) / 100m (cat 6a);<br>1080p@100m<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@70m (Cat 5e/6) / 100m (cat 6a);<br>1080p@100m<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                |                                                                                                                                                                   |                                                                                                                                                                   |
| Input                       | N/A                                                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                                                                    |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                                                    | N/A                                                                                                                                                               |
| <b>Control</b>              |                                                                                                                                                                   |                                                                                                                                                                   |
| USB Channel                 | 3 x USB Type A Female<br>Transfer Rate: USB 2.0 (Up to 40 Mbps)                                                                                                   | 1 x USB Type B Female<br>Transfer Rate: USB 2.0 (Up to 40 Mbps)                                                                                                   |
| <b>Connectors</b>           |                                                                                                                                                                   |                                                                                                                                                                   |
| Power                       | 1 x DC Jack                                                                                                                                                       | 1 x DC Jack                                                                                                                                                       |
| <b>Power Consumption</b>    |                                                                                                                                                                   |                                                                                                                                                                   |
|                             | DC5V: 5.75W<br>Note: For the VE813AR, power consumption will be 13.25W when all 3 USB connectors are occupied.                                                    | DC5V: 5.75W                                                                                                                                                       |
| <b>Environmental</b>        |                                                                                                                                                                   |                                                                                                                                                                   |
| Operating Temperature       | 0 - 40°C                                                                                                                                                          | 0 - 40°C                                                                                                                                                          |
| Storage Temperature         | -20 - 60°C                                                                                                                                                        | -20 - 60°C                                                                                                                                                        |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                        | 0 - 80% RH, Non-Condensing                                                                                                                                        |
| <b>Physical Properties</b>  |                                                                                                                                                                   |                                                                                                                                                                   |
| Housing                     | Metal                                                                                                                                                             | Metal                                                                                                                                                             |
| Weight                      | 0.62 kg ( 1.37 lb )                                                                                                                                               | 0.61 kg ( 1.34 lb )                                                                                                                                               |
| Dimensions (L x W x H)      | 18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)                                                                                                                  | 18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)                                                                                                                  |
| Carton Lot                  | 5 pcs                                                                                                                                                             | 5 pcs                                                                                                                                                             |
| Included Accessories        | 1x HDMI Cable; 1 USB Cable; 2x Power Adapters; 1x Mounting Kit                                                                                                    |                                                                                                                                                                   |
| Optional Accessories        | Please refer to 9-58                                                                                                                                              |                                                                                                                                                                   |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE811 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A) 100 m



## Features

- **HDBaseT Connectivity** – extends HDMI signals up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- HDMI (3D, Deep Color, 4K)
- HDCP 2.2 compatible
- Built-in 8KV/ 15 KV ESD protection
- Wide screen format
- Plug-and-play
- Rack-mountable

## Specifications

| Function                               | VE811R                                                                                                                                                                                         | VE811T                                                                                                                                                                                         |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Interfaces                             | N/A                                                                                                                                                                                            | 1 x HDMI Type A Female (Black)                                                                                                                                                                 |
| Impedance                              | N/A                                                                                                                                                                                            | 100 Ω                                                                                                                                                                                          |
| Max. Distance                          | N/A                                                                                                                                                                                            | 1.8 m                                                                                                                                                                                          |
| <b>Video Output</b>                    |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                                 | N/A                                                                                                                                                                                            |
| Impedance                              | 100 Ω                                                                                                                                                                                          | N/A                                                                                                                                                                                            |
| <b>Video</b>                           |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                  | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                  |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                        | 340 MHz                                                                                                                                                                                        |
| Compliance                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                             |
| Max. Resolutions / Distance            | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Input                                  | N/A                                                                                                                                                                                            | 1 x HDMI Type A Female (Black)                                                                                                                                                                 |
| Output                                 | 1 x HDMI Type A Female (Black)                                                                                                                                                                 | N/A                                                                                                                                                                                            |
| <b>Connectors</b>                      |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                               | 1 x RJ-45 Female                                                                                                                                                                               |
| Firmware Upgrade                       | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                            | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                            |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                               | 1 x DC Jack (Black) with locking                                                                                                                                                               |
| <b>Switches</b>                        |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Long Reach Mode Switch                 | 1 x Slide Switch - ON/OFF                                                                                                                                                                      | 1 x Slide Switch - ON/OFF                                                                                                                                                                      |
| <b>Power Consumption</b>               | DC5V: 3.77W                                                                                                                                                                                    | DC5V: 3.84W                                                                                                                                                                                    |
| <b>Environmental</b>                   |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                       | 0 - 40°C                                                                                                                                                                                       |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                     | -20 - 60°C                                                                                                                                                                                     |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                     | 0 - 80% RH, Non-Condensing                                                                                                                                                                     |
| <b>Physical Properties</b>             |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Housing                                | Metal                                                                                                                                                                                          | Metal                                                                                                                                                                                          |
| Weight                                 | 0.17 kg ( 0.37 lb )                                                                                                                                                                            | 0.16 kg ( 0.35 lb )                                                                                                                                                                            |
| Dimensions (L x W x H) with bracket    | 8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)                                                                                                                                                  | 8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)                                                                                                                                                  |
| Dimensions (L x W x H) without bracket | 8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)                                                                                                                                                 | 8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)                                                                                                                                                 |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                                                                          | 5 pcs                                                                                                                                                                                          |
| <b>Included Accessories</b>            | 2x Power Adapters                                                                                                                                                                              |                                                                                                                                                                                                |
| <b>Optional Accessories</b>            | Please refer to 9-58                                                                                                                                                                           |                                                                                                                                                                                                |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE1812 HDMI HDBaseT Extender with POH (4K@100m) (HDBaseT Class A) 100 m



## Features

- **HDBaseT Connectivity** – extends HDMI signals over a long distance via one Cat 5e / 6 / 6a cable
- **Supports HDBaseT Long Reach Mode** – up to a maximum range of 150 meters @ 1080p
- 4k x 2k HDMI transmission distance up to 100m over Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during highquality video transmission using HDBaseT technology
- **POH (Power over HDBaseT)** – supplies power over a long distance via single Cat 6/6a cable
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – two way IR protocol delivery by one IR port; IR transmission is processed one direction at a time
- Rack mountable

## Specifications

| Function                               | VE1812R                                                                                                                                                                                        | VE1812T                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Interfaces                             | N/A                                                                                                                                                                                            | 1 x HDMI Type A Female (Black)                                                                                                                                                                 |
| Impedance                              | N/A                                                                                                                                                                                            | 100 Ω                                                                                                                                                                                          |
| Max. Distance                          | N/A                                                                                                                                                                                            | 1.8 m                                                                                                                                                                                          |
| <b>Video Output</b>                    |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                                 | N/A                                                                                                                                                                                            |
| Impedance                              | 100 Ω                                                                                                                                                                                          | N/A                                                                                                                                                                                            |
| <b>Video</b>                           |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                  | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                  |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                        | 340 MHz                                                                                                                                                                                        |
| Compliance                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                             |
| Max. Resolutions / Distance            | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Input                                  | N/A                                                                                                                                                                                            | 1 x HDMI Type A Female (Black)                                                                                                                                                                 |
| Output                                 | 1 x HDMI Type A Female (Black)                                                                                                                                                                 | N/A                                                                                                                                                                                            |
| <b>Connectors</b>                      |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                               | 1 x RJ-45 Female                                                                                                                                                                               |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                               | 1 x DC Jack (Black) with locking                                                                                                                                                               |
| <b>Control</b>                         |                                                                                                                                                                                                |                                                                                                                                                                                                |
| RS-232                                 | <b>Connector:</b> 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control                                                                      | <b>Connector:</b> 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>Stop Bits:1, no parity and flow control                                                                      |
| IR                                     | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                            | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                            |
| <b>Switches</b>                        |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Long Reach Mode Switch                 | 1 x Slide Switch - ON/OFF                                                                                                                                                                      | 1 x Slide Switch - ON/OFF                                                                                                                                                                      |
| Firmware Upgrade                       | 1 x Slide Switch - ON/OFF                                                                                                                                                                      | 1 x Slide Switch - ON/OFF                                                                                                                                                                      |
| <b>Power Consumption</b>               | DC5V: 4.26W                                                                                                                                                                                    | DC5V: 3.2W                                                                                                                                                                                     |
| <b>Environmental</b>                   |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Operating Temperature                  | 0 - 40°C                                                                                                                                                                                       | 0 - 40°C                                                                                                                                                                                       |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                     | -20 - 60°C                                                                                                                                                                                     |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                     | 0 - 80% RH, Non-Condensing                                                                                                                                                                     |
| <b>Physical Properties</b>             |                                                                                                                                                                                                |                                                                                                                                                                                                |
| Housing                                | Metal                                                                                                                                                                                          | Metal                                                                                                                                                                                          |
| Weight                                 | 0.45 kg ( 0.99 lb )                                                                                                                                                                            | 0.47 kg ( 1.04 lb )                                                                                                                                                                            |
| Dimensions (L x W x H) with bracket    | 14.04 x 12.30 x 3.00 cm<br>(5.53 x 4.84 x 1.18 in.)                                                                                                                                            | 14.04 x 12.30 x 3.00 cm<br>(5.53 x 4.84 x 1.18 in.)                                                                                                                                            |
| Dimensions (L x W x H) without bracket | 13.60 x 10.10 x 2.90 cm<br>(5.35 x 3.98 x 1.14 in.)                                                                                                                                            | 13.60 x 10.10 x 2.90 cm<br>(5.35 x 3.98 x 1.14 in.)                                                                                                                                            |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                                                                          | 5 pcs                                                                                                                                                                                          |
| <b>Included Accessories</b>            | 1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x RS-232 Terminal Blocks                                                                                                                 |                                                                                                                                                                                                |
| <b>Optional Accessories</b>            | Please refer to 9-58                                                                                                                                                                           |                                                                                                                                                                                                |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

## VE812 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A) 100 m



### Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

### Specifications

| Function                    | VE812R                                                                                                                                                            | VE812T                                                                                                                                                            |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input                 |                                                                                                                                                                   |                                                                                                                                                                   |
| Interfaces                  | N/A                                                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                                                                    |
| Impedance                   | N/A                                                                                                                                                               | 100 Ω                                                                                                                                                             |
| Max. Distance               | N/A                                                                                                                                                               | 1.8 m                                                                                                                                                             |
| Video Output                |                                                                                                                                                                   |                                                                                                                                                                   |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                    | N/A                                                                                                                                                               |
| Impedance                   | 100 Ω                                                                                                                                                             | N/A                                                                                                                                                               |
| Video                       |                                                                                                                                                                   |                                                                                                                                                                   |
| Max. Data Rate              | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                                     | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                                     |
| Max. Pixel Clock            | Up to 340 MHz                                                                                                                                                     | Up to 340 MHz                                                                                                                                                     |
| Compliance                  | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                |
| Max. Resolutions / Distance | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a);<br>1080p@100m<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a);<br>1080p@100m<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| Audio                       |                                                                                                                                                                   |                                                                                                                                                                   |
| Input                       | N/A                                                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                                                                    |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                                                    | N/A                                                                                                                                                               |
| Connectors                  |                                                                                                                                                                   |                                                                                                                                                                   |
| Power                       | 1 x DC Jack                                                                                                                                                       | 1 x DC Jack                                                                                                                                                       |
| Power Consumption           | DC5.3V: 5.06W                                                                                                                                                     | DC5.3V: 2.22W                                                                                                                                                     |
| Environmental               |                                                                                                                                                                   |                                                                                                                                                                   |
| Operating Temperature       | 0 - 50°C                                                                                                                                                          | 0 - 50°C                                                                                                                                                          |
| Storage Temperature         | -20 - 60°C                                                                                                                                                        | -20 - 60°C                                                                                                                                                        |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                        | 0 - 80% RH, Non-Condensing                                                                                                                                        |
| Physical Properties         |                                                                                                                                                                   |                                                                                                                                                                   |
| Housing                     | Metal                                                                                                                                                             | Metal                                                                                                                                                             |
| Weight                      | 0.41 kg ( 0.9 lb )                                                                                                                                                | 0.40 kg ( 0.88 lb )                                                                                                                                               |
| Dimensions (L x W x H)      | 14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)                                                                                                                  | 14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)                                                                                                                  |
| Carton Lot                  | 5 pcs                                                                                                                                                             | 5 pcs                                                                                                                                                             |
| Included Accessories        | 2x Power Adapters; 1x Mounting Kit                                                                                                                                |                                                                                                                                                                   |
| Optional Accessories        | Please refer to 9-58                                                                                                                                              |                                                                                                                                                                   |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE801 HDMI HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B)

# VE802 HDMI HDBaseT-Lite Extender with POH (4K@40m) (HDBaseT Class B)

70 m



## Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- **POH (Power over HDBaseT)** – supplies power over a long distance via single Cat 6/6a cable (VE802)
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device (VE802)
- **Bi-directional IR channel** for IR signal control; IR transmission is processed one direction at a time (VE802)
- Rack-mountable

## Specifications

| Function                               | VE801R / VE802R                                                                                                                                                                           | VE801T / VE802T                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Interfaces                             | N/A                                                                                                                                                                                       | 1 x HDMI Type A Female (Black)                                                                                                                                                            |
| Impedance                              | N/A                                                                                                                                                                                       | 100 Ω                                                                                                                                                                                     |
| Max. Distance                          | N/A                                                                                                                                                                                       | 1.8 m                                                                                                                                                                                     |
| <b>Video Output</b>                    |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                                                            | N/A                                                                                                                                                                                       |
| Impedance                              | 100 Ω                                                                                                                                                                                     | N/A                                                                                                                                                                                       |
| <b>Video</b>                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                             | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                             |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                                                                   | 340 MHz                                                                                                                                                                                   |
| Compliance                             | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                        | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                        |
| Max. Resolutions / Distance            | Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a);<br>1080p@60m (Cat 5e/6) / 70m (Cat 6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a);<br>1080p@60m (Cat 5e/6) / 70m (Cat 6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Input                                  | N/A                                                                                                                                                                                       | 1 x HDMI Type A Female (Black)                                                                                                                                                            |
| Output                                 | 1 x HDMI Type A Female (Black)                                                                                                                                                            | N/A                                                                                                                                                                                       |
| <b>Control</b>                         |                                                                                                                                                                                           |                                                                                                                                                                                           |
| RS-232                                 | VE802R: <b>Connector:</b> 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control                                                            | VE802T: <b>Connector:</b> 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control                                                            |
| IR                                     | VE802R: 1 x Mini Stereo Jack Female (Black)                                                                                                                                               | VE802T: 1 x Mini Stereo Jack Female (Black)                                                                                                                                               |
| <b>Connectors</b>                      |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                                                                          | 1 x RJ-45 Female                                                                                                                                                                          |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                                                          | 1 x DC Jack (Black) with locking                                                                                                                                                          |
| <b>Power consumption</b>               | VE801R: DC5V: 4.24W / VE802R:DC5V: 4.37W                                                                                                                                                  | VE801T: DC5V: 1.86W / VE802T: DC5V: 12.28W                                                                                                                                                |
| <b>Environmental</b>                   |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Operating Temperature                  | 0 - 50°C                                                                                                                                                                                  | 0 - 50°C                                                                                                                                                                                  |
| Storage Temperature                    | -20 - 60°C                                                                                                                                                                                | -20 - 60°C                                                                                                                                                                                |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                                                                | 0 - 80% RH, Non-Condensing                                                                                                                                                                |
| <b>Physical Properties</b>             |                                                                                                                                                                                           |                                                                                                                                                                                           |
| Housing                                | Metal                                                                                                                                                                                     | Metal                                                                                                                                                                                     |
| Weight                                 | VE801R: 0.25 kg ( 0.55 lb )<br>VE802R: 0.46 kg ( 1.01 lb )                                                                                                                                | VE801T: 0.24 kg ( 0.53 lb )<br>VE802T: 0.44 kg ( 0.97 lb )                                                                                                                                |
| Dimensions (L x W x H) with bracket    | VE801: 9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.)<br>VE802: 14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)                                                                          |                                                                                                                                                                                           |
| Dimensions (L x W x H) without bracket | VE801: 9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)<br>VE802: 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)                                                                           |                                                                                                                                                                                           |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                                                                     | 5 pcs                                                                                                                                                                                     |
| <b>Included Accessories</b>            | VE801: 2x Power Adapters<br>VE802: 1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x Terminal Blocks                                                                                |                                                                                                                                                                                           |
| <b>Optional Accessories</b>            | Please refer to 9-58                                                                                                                                                                      |                                                                                                                                                                                           |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.



## VE901 DisplayPort HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B) 70 m



### Features

- **HDBaseT Connectivity** – extends a DVI connection over a long distance via single 5e / 6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- DisplayPort receiver provides 3.3V/500mA of output power
- Rack-mountable

Front

Rear



### Specifications

| Function                               | VE901R                                                                                                                                       | VE901T                                                                                                                                       |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                              |                                                                                                                                              |
| Interfaces                             | N/A                                                                                                                                          | 1 x DisplayPort Female (Black)                                                                                                               |
| Impedance                              | N/A                                                                                                                                          | 100 $\Omega$                                                                                                                                 |
| Max. Distance                          | N/A                                                                                                                                          | 1.5 m                                                                                                                                        |
| <b>Video Output</b>                    |                                                                                                                                              |                                                                                                                                              |
| Interfaces                             | 1 x DisplayPort Female (Black)                                                                                                               | N/A                                                                                                                                          |
| Impedance                              | 100 $\Omega$                                                                                                                                 | N/A                                                                                                                                          |
| <b>Video</b>                           |                                                                                                                                              |                                                                                                                                              |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                |
| Max. Pixel Clock                       | 297MHz                                                                                                                                       | 297MHz                                                                                                                                       |
| Compliance                             | DisplayPort (Deep Color, 4K)<br>HDCP Compatible                                                                                              | DisplayPort (Deep Color, 4K)<br>HDCP Compatible                                                                                              |
| Max. Resolutions / Distance            | Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a);<br>1080p@60m (Cat 5e/6) / 70m (Cat 6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a);<br>1080p@60m (Cat 5e/6) / 70m (Cat 6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                           |                                                                                                                                              |                                                                                                                                              |
| Input                                  | N/A                                                                                                                                          | 1 x DisplayPort Female (Black)                                                                                                               |
| Output                                 | 1 x DisplayPort Female (Black)                                                                                                               | N/A                                                                                                                                          |
| <b>Connectors</b>                      |                                                                                                                                              |                                                                                                                                              |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                             | 1 x DC Jack (Black) with locking                                                                                                             |
| <b>Power Consumption</b>               |                                                                                                                                              |                                                                                                                                              |
|                                        | DC5V: 5.72W                                                                                                                                  | DC5V: 2.84W                                                                                                                                  |
| <b>Environmental</b>                   |                                                                                                                                              |                                                                                                                                              |
| Operating Temperature                  | 0 - 40°C                                                                                                                                     | 0 - 40°C                                                                                                                                     |
| Storage Temperature                    | -20 - 60°C                                                                                                                                   | -20 - 60°C                                                                                                                                   |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                   | 0 - 80% RH, Non-Condensing                                                                                                                   |
| <b>Physical Properties</b>             |                                                                                                                                              |                                                                                                                                              |
| Housing                                | Metal                                                                                                                                        | Metal                                                                                                                                        |
| Weight                                 | 0.27 kg ( 0.59 lb )                                                                                                                          | 0.24 kg ( 0.53 lb )                                                                                                                          |
| Dimensions (L x W x H)                 | 9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)                                                                                               | 9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)                                                                                               |
| Dimensions (L x W x H) without bracket | 9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)                                                                                                | 9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)                                                                                                |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                        | 5 pcs                                                                                                                                        |
| <b>Included Accessories</b>            | 2x Power Adapters                                                                                                                            |                                                                                                                                              |
| <b>Optional Accessories</b>            | Please refer to 9-58                                                                                                                         |                                                                                                                                              |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

## VE601 DVI HDBaseT-Lite Extender (1080p@70m) (HDBaseT Class B) 70 m



### Features

- **HDBaseT Connectivity** – extends a DVI connection over a long distance via a single Ethernet cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

### Specifications

| Function                               | VE601R                                                                                                                                    | VE601T                                                                                                                                    |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                           |                                                                                                                                           |
| Interfaces                             | N/A                                                                                                                                       | 1 x DVI-D Female (White)                                                                                                                  |
| Impedance                              | N/A                                                                                                                                       | 100 $\Omega$                                                                                                                              |
| Max. Distance                          | N/A                                                                                                                                       | Up to 1.8 m                                                                                                                               |
| <b>Video Output</b>                    |                                                                                                                                           |                                                                                                                                           |
| Interfaces                             | 1 x DVI-D Female (White)                                                                                                                  | N/A                                                                                                                                       |
| Impedance                              | 100 $\Omega$                                                                                                                              | N/A                                                                                                                                       |
| <b>Video</b>                           |                                                                                                                                           |                                                                                                                                           |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps per lane)                                                                                                             | 10.2 Gbps (3.4 Gbps per lane)                                                                                                             |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                   | 340 MHz                                                                                                                                   |
| Compliance                             | DVI (3D, Deep Color)<br>HDCP compatible                                                                                                   | DVI (3D, Deep Color)<br>HDCP compatible                                                                                                   |
| Max. Resolutions / Distance            | Up to 1920 x 1200@35 m (Cat 5e/6) / 40 m<br>(Cat 6a/ ATEN 2L-2910 Cat 6);<br>1080p@60 m (Cat 5e/6) / 70 m<br>(Cat 6a/ ATEN 2L-2910 Cat 6) | Up to 1920 x 1200@35 m (Cat 5e/6) / 40 m<br>(Cat 6a/ ATEN 2L-2910 Cat 6);<br>1080p@60 m (Cat 5e/6) / 70 m<br>(Cat 6a/ ATEN 2L-2910 Cat 6) |
| <b>Connectors</b>                      |                                                                                                                                           |                                                                                                                                           |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                                          | 1 x RJ-45 Female                                                                                                                          |
| Power                                  | 1 x DC Jack with locking                                                                                                                  | 1 x DC Jack with locking                                                                                                                  |
| <b>Power Consumption</b>               | DC5V: 4.36W                                                                                                                               | DC5V: 1.84W                                                                                                                               |
| <b>Environmental</b>                   |                                                                                                                                           |                                                                                                                                           |
| Operating Temperature                  | 0 - 50°C                                                                                                                                  | 0 - 50°C                                                                                                                                  |
| Storage Temperature                    | -20 - 60°C                                                                                                                                | -20 - 60°C                                                                                                                                |
| Humidity                               | 0% - 80% RH, Non-condensing                                                                                                               | 0% - 80% RH, Non-condensing                                                                                                               |
| <b>Physical Properties</b>             |                                                                                                                                           |                                                                                                                                           |
| Housing                                | Metal                                                                                                                                     | Metal                                                                                                                                     |
| Weight                                 | 0.25 kg ( 0.55 lb )                                                                                                                       | 0.25 kg ( 0.55 lb )                                                                                                                       |
| Dimensions (L x W x H)                 | 10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)                                                                                           | 10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)                                                                                           |
| Dimensions (L x W x H) without bracket | 9.42 x 6.60 x 2.90 cm<br>(3.71 x 2.6 x 1.14 in.)                                                                                          | 9.42 x 6.60 x 2.90 cm<br>(3.71 x 2.6 x 1.14 in.)                                                                                          |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                     | 5 pcs                                                                                                                                     |
| <b>Included Accessories</b>            | 2x Power Adapters                                                                                                                         |                                                                                                                                           |
| <b>Optional Accessories</b>            | Please refer to 9-59                                                                                                                      |                                                                                                                                           |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

## Wall Plates



### Why Choose ATEN Wall Plate Extenders?

The popularization of professional audio and video applications to enhance presentation efficiency has resulted in new ways of managing and delivering signals while concealing cables and other equipment. The convenience and elegance that only wall plate extenders provide enable you to immerse AV extensions into any application, such as on walls or tables, to fit any room décor. Experience this with the following advantages of Wall Plate Extenders:

- Conceal Cabling: Put bulky cabling and other installed equipment out of sight.
- Convenient Placement: Flexibly place signal input and output connections exactly where they are needed.
- Complimentary Design: Mount on any surface while simply blending in with the environment.

ATEN offers a range of Wall Plate Extenders that supports long distance transmissions, delivering reliable AV experiences in style while providing these additional advantages for your installations:



#### Convenient Installation

Support for US/decora, EU/MK wall plates offers comprehensive options across different regions



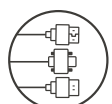
#### Superior Video Quality

Delivers superior video quality of up to 4K video, 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)



#### HDBaseT Support

Ensures high quality long distance video transmission of up to 4K@100m and 1080p@150m via single Cat 6 cable



#### Interface Conversion

Convert inputs to support popular digital output interfaces such as DVI, HDMI, and VGA.

# VE2812EUT HDMI & VGA HDBaseT Transmitter with EU Wall Plate (4K@100m) (HDBaseT Class A)

# VE2812UST HDMI & VGA HDBaseT Transmitter with US Wall Plate (4K@100m) (HDBaseT Class A)



Front (VE2812EUT)



Front (VE2812UST)



Side (VE2812EUT)



Side (VE2812UST)



Side (VE2812EUT)



Side (VE2812UST)



## Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Designed to mount in a two-gang junction box
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality:
  - HDMI: 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
  - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Supports Auto Switch – allows the VE2812EUT / VE2812UST automatically switches to a newly plugged-in source
- Functions as a switch or a converter
  - A Switch: Connects two sources (HDMI or VGA)
  - A Converter: Applies receivers with different interface (DVI, DisplayPort, or HDMI)
- Supports RS-232 channel transmission or command mode for source switch control
- Compatible Receivers – VE1812R, VE812R, VE814AR, VE811R, VE801R, VE802R, VE601R, VE901R or future ATEN HDBaseT Receivers
- Plug-and-play
- Built-in 8KV / 15 KV ESD protection
- LED indication of sources and device status

## Specifications

| Function                        | VE2812EUT                                                                                                                                                                                                                                                                                                               | VE2812UST                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>              |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| Interfaces                      | 1 x HDMI Type A Female (Black)<br>1 x HDB-15 (VGA) Female (Blue)                                                                                                                                                                                                                                                        | 1 x HDMI Type A Female (Black)<br>1 x HDB-15 (VGA) Female (Blue)                                                                                                                                                                                                                                                        |
| Impedance                       | HDMI: 100 Ω<br>HDB-15 (VGA): 75 Ω                                                                                                                                                                                                                                                                                       | HDMI: 100 Ω<br>HDB-15 (VGA): 75 Ω                                                                                                                                                                                                                                                                                       |
| Max. Distance                   | 1.8 m (HDMI)                                                                                                                                                                                                                                                                                                            | 1.8 m (HDMI)                                                                                                                                                                                                                                                                                                            |
| <b>Video</b>                    |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| Max. Data Rate                  | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                                                                                                                                           | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                                                                                                                                           |
| Max. Pixel Clock                | 340 MHz                                                                                                                                                                                                                                                                                                                 | 340 MHz                                                                                                                                                                                                                                                                                                                 |
| Compliance                      | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                                                                                                      | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                                                                                                      |
| Max. Resolutions / Distance     | HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)<br>VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                    |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| Input                           | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green)                                                                                                                                                                                                                                                   | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green)                                                                                                                                                                                                                                                   |
| <b>Connectors</b>               |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| Unit To Unit                    | 1 x RJ-45 Female                                                                                                                                                                                                                                                                                                        | 1 x RJ-45 Female                                                                                                                                                                                                                                                                                                        |
| Power                           | 1 x Terminal Block, 2 pole (Green)                                                                                                                                                                                                                                                                                      | 1 x Terminal Block, 2 pole (Green)                                                                                                                                                                                                                                                                                      |
| <b>Control</b>                  |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| RS-232                          | <b>Connector:</b> 1 x Terminal Block, 3 pole (Green)<br><b>Baud Rate:</b> 19200, Data Bits:8,<br><b>Stop Bits:</b> 1, no parity and flow control                                                                                                                                                                        | <b>Connector:</b> 1 x Terminal Block, 3 pole (Green)<br><b>Baud Rate:</b> 19200, Data Bits:8,<br><b>Stop Bits:</b> 1, no parity and flow control                                                                                                                                                                        |
| IR                              | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                                                                                                                                                     | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                                                                                                                                                     |
| <b>Power Consumption</b>        | DC5V: 3.14W                                                                                                                                                                                                                                                                                                             | DC5V: 3.04W                                                                                                                                                                                                                                                                                                             |
| <b>Environmental</b>            |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| Operating Temperature           | 0 - 40°C                                                                                                                                                                                                                                                                                                                | 0 - 40°C                                                                                                                                                                                                                                                                                                                |
| Storage Temperature             | -20 - 60°C                                                                                                                                                                                                                                                                                                              | -20 - 60°C                                                                                                                                                                                                                                                                                                              |
| Humidity                        | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                              | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                                                              |
| <b>Physical Properties</b>      |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| Housing                         | Metal                                                                                                                                                                                                                                                                                                                   | Metal                                                                                                                                                                                                                                                                                                                   |
| Weight                          | 0.35 kg ( 0.77 lb )                                                                                                                                                                                                                                                                                                     | 0.29 kg ( 0.64 lb )                                                                                                                                                                                                                                                                                                     |
| Dimensions (L x W x H)          | 5.00 x 10.80 x 5.17 cm (1.97 x 4.25 x 2.04 in.)                                                                                                                                                                                                                                                                         | 10.42 x 8.79 x 5.19 cm (4.1 x 3.46 x 2.04 in.)                                                                                                                                                                                                                                                                          |
| Faceplate Dimension (L x W x H) | 8.60 x 15.10 x 1.35 cm (3.39 x 5.94 x 0.53 in.)                                                                                                                                                                                                                                                                         | 11.43 x 11.43 x 0.60 cm (4.5 x 4.5 x 0.24 in.)                                                                                                                                                                                                                                                                          |
| <b>Carton Lot</b>               | 5 pcs                                                                                                                                                                                                                                                                                                                   | 5 pcs                                                                                                                                                                                                                                                                                                                   |
| <b>Included Accessories</b>     | 1x 3 Pin RS-232 Terminal Block, 1x 2 Pin Power Terminal Block, 1x Mounting Kit, 1x Power Adapter                                                                                                                                                                                                                        | 1x 3 Pin RS-232 Terminal Block, 1x 2 Pin Power Terminal Block, 1x Faceplate, 1x Power Adapter                                                                                                                                                                                                                           |
| <b>Optional Accessories</b>     | Please refer to 9-57                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                         |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

# VE1801EUT HDMI HDBaseT-Lite Transmitter with EU Wall Plate (4K@40m) (HDBaseT Class B)

# VE1801UST HDMI HDBaseT-Lite Transmitter with US Wall Plate (4K@40m) (HDBaseT Class B)



Front (VE1801EUT)



Rear



Front (VE1801UST)



Rear



## Features

- Extends HDMI signals with superior video quality over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
  - 4K up to 40 m
  - 1080p up to 70 m
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Designed to mount in a one-gang junction box
- Supports RS-232 channel transmission
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- LED indication of device status
- Supports wide screen format
- Built-in 8KV / 15 KV ESD protection
- Plug-and-play

## Specifications

| Function                        | VE1801EUT                                                                                                                                                                                                                           | VE1801UST                                                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>              |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| Interfaces                      | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                      | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                      |
| Impedance                       | 100 $\Omega$                                                                                                                                                                                                                        | 100 $\Omega$                                                                                                                                                                                                                        |
| Max. Distance                   | 3 m                                                                                                                                                                                                                                 | 3 m                                                                                                                                                                                                                                 |
| <b>Video</b>                    |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| Max. Data Rate                  | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                                                       | 10.2 Gbps (3.4 Gbps per lane)                                                                                                                                                                                                       |
| Max. Pixel Clock                | 340 MHz                                                                                                                                                                                                                             | 340 MHz                                                                                                                                                                                                                             |
| Compliance                      | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                  | HDMI (3D, Deep Color, 4K)<br>HDCP Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                  |
| Max. Resolutions / Distance     | Up to 4K@35m (Cat 5e/6) /<br>40m (Cat 6a/ATEN 2L-2910 Cat6);<br>1080p@60m (Cat 5e/6) /<br>70m (Cat 6a/ATEN 2L-2910 Cat6)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Up to 4K@35m (Cat 5e/6) /<br>40m (Cat 6a/ATEN 2L-2910 Cat6);<br>1080p@60m (Cat 5e/6) /<br>70m (Cat 6a/ATEN 2L-2910 Cat6)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| <b>Audio</b>                    |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| Input                           | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                      | 1 x HDMI Type A Female (Black)                                                                                                                                                                                                      |
| <b>Control</b>                  |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| RS-232 Channel                  | 1 x Terminal Block, (3 pole, Green)                                                                                                                                                                                                 | 1 x Terminal Block, (3 pole, Green)                                                                                                                                                                                                 |
| <b>Connectors</b>               |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| Power                           | 1 x Terminal Block (2 pole, Green)                                                                                                                                                                                                  | 1 x RJ-45 Female                                                                                                                                                                                                                    |
| Unit To Unit                    | 1 x RJ-45 Female                                                                                                                                                                                                                    | 1 x Terminal Block (2 pole, Green)                                                                                                                                                                                                  |
| <b>Power Consumption</b>        | DC5V: 1.75W                                                                                                                                                                                                                         | DC5V: 1.75W                                                                                                                                                                                                                         |
| <b>Environmental</b>            |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| Operating Temperature           | 0 - 40°C                                                                                                                                                                                                                            | 0 - 40°C                                                                                                                                                                                                                            |
| Storage Temperature             | -20 - 60°C                                                                                                                                                                                                                          | -20 - 60°C                                                                                                                                                                                                                          |
| Humidity                        | 0% - 80% RH, Non-condensing                                                                                                                                                                                                         | 0% - 80% RH, Non-condensing                                                                                                                                                                                                         |
| <b>Physical Properties</b>      |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
| Housing                         | Metal                                                                                                                                                                                                                               | Metal                                                                                                                                                                                                                               |
| Weight                          | 0.17 kg (0.37 lb)                                                                                                                                                                                                                   | 0.17 kg (0.37 lb)                                                                                                                                                                                                                   |
| Dimensions (L x W x H)          | 6.86 x 4.44 x 4.10 cm (2.70 x 1.75 x 1.61 in.)                                                                                                                                                                                      | 10.41 x 4.44 x 4.10 cm (4.10 x 1.75 x 1.61 in.)                                                                                                                                                                                     |
| Faceplate Dimension (L x W x H) | 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)                                                                                                                                                                                      | N/A                                                                                                                                                                                                                                 |
| <b>Carton Lot</b>               | 5 pcs                                                                                                                                                                                                                               | 5 pcs                                                                                                                                                                                                                               |
| <b>Included Accessories</b>     | 4 x Foot Pads; 1 x Faceplate; 2 x Pan Head Screws;<br>4 x PF Screws; 1 x RS-232 Terminal Block (3-pin);<br>1 x Power Terminal Block (2-pin); 1 x Power Adapter                                                                      | 1 x Power Adapter;<br>1 x RS-232 Terminal Block (3-pin);<br>1 x Power Terminal Block (2-pin)                                                                                                                                        |
| <b>Optional Accessories</b>     | Please refer to 9-59                                                                                                                                                                                                                |                                                                                                                                                                                                                                     |

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

## VE806 / VE807 HDMI/Audio Cat 5 Extender with US / MK Wall Plate (1080p@40m)



Front



R

VE806R



T

VE806T



VE806



VE807

Rear



R

VE806R



T

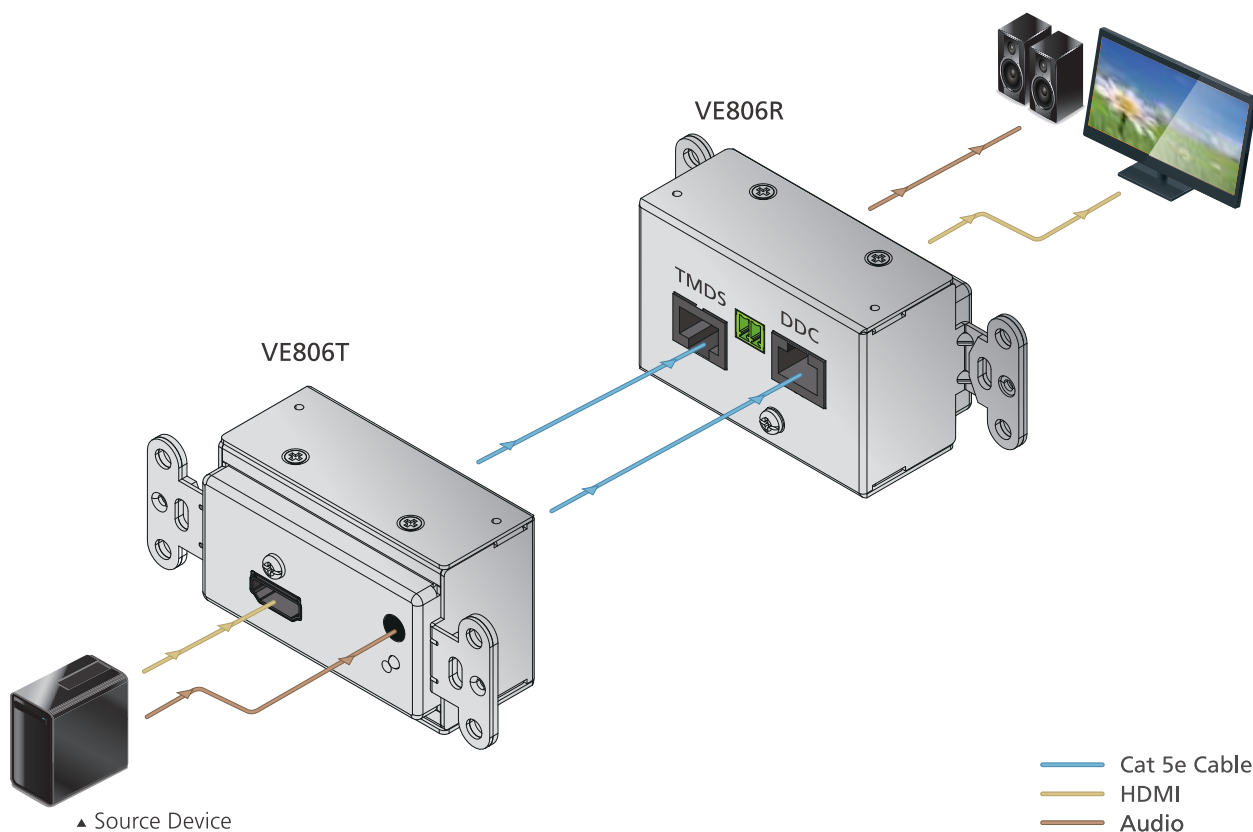
VE806T

### Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power\*
- Superior video quality up to 1080p @60 Hz (40 m) and 1080i @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
- VE806: Decora type design for US
- VE807: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: \*A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

### Setup > VE806T + VE806R





## Specifications

| Function                        | VE806R / 807R                                                                                                                                        | VE806T / 807T                                                                                                         |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>              |                                                                                                                                                      |                                                                                                                       |
| Interfaces                      | N/A                                                                                                                                                  | 1 x HDMI Type A Female (Black)                                                                                        |
| Impedance                       | N/A                                                                                                                                                  | 100 $\Omega$                                                                                                          |
| Max. Distance                   | N/A                                                                                                                                                  | 1.8 m                                                                                                                 |
| <b>Video Output</b>             |                                                                                                                                                      |                                                                                                                       |
| Interfaces                      | 1 x HDMI Type A Female (Black)                                                                                                                       | N/A                                                                                                                   |
| Impedance                       | 100 $\Omega$                                                                                                                                         | N/A                                                                                                                   |
| <b>Video</b>                    |                                                                                                                                                      |                                                                                                                       |
| Max. Data Rate                  | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                       | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                        |
| Max. Pixel Clock                | 225 MHz                                                                                                                                              | 225 MHz                                                                                                               |
| Compliance                      | HDMI (3D, Deep Color)<br>HDCP Compatible                                                                                                             | HDMI (3D, Deep Color)<br>HDCP Compatible                                                                              |
| Max. Resolutions / Distance     | Up to 1080p@40m; 1080i@60m                                                                                                                           | Up to 1080p@40m; 1080i@60m                                                                                            |
| <b>Audio</b>                    |                                                                                                                                                      |                                                                                                                       |
| Input                           | N/A                                                                                                                                                  | 1 x HDMI Type A Female (Black)                                                                                        |
| Output                          | 1 x HDMI Type A Female (Black)                                                                                                                       | N/A                                                                                                                   |
| <b>Connectors</b>               |                                                                                                                                                      |                                                                                                                       |
| Power                           | 1 x Terminal Block (Green)                                                                                                                           | 1 x Terminal Block (Green)                                                                                            |
| <b>Power Consumption</b>        | VE806R:DC9V:2.28W<br>VE807R:DC9V:0.81W                                                                                                               | VE806T:DC9V:2.33W<br>VE807T:DC9V:1.35W                                                                                |
|                                 |                                                                                                                                                      |                                                                                                                       |
| <b>Environmental</b>            |                                                                                                                                                      |                                                                                                                       |
| Operating Temperature           | 0 - 50°C                                                                                                                                             | 0 - 50°C                                                                                                              |
| Storage Temperature             | -20 - 60°C                                                                                                                                           | -20 - 60°C                                                                                                            |
| Humidity                        | 0 - 80% RH, Non-Condensing                                                                                                                           | 0 - 80% RH, Non-Condensing                                                                                            |
| <b>Physical Properties</b>      |                                                                                                                                                      |                                                                                                                       |
| Housing                         | Metal                                                                                                                                                | Metal                                                                                                                 |
| Weight                          | VE806R: 0.17 kg ( 0.37 lb )<br>VE807R: 0.18 kg ( 0.4 lb )                                                                                            | VE806T: 0.17 kg ( 0.37 lb )<br>VE807T: 0.18 kg ( 0.4 lb )                                                             |
| Dimensions (L x W x H)          | VE806R: 10.41 x 4.44 x 4.00 cm<br>(4.1 x 1.75 x 1.57 in.)<br>VE807R: 6.86 x 4.44 x 4.00 cm<br>(2.7 x 1.75 x 1.57 in.)                                | VE806T: 10.41 x 4.44 x 4.00 cm<br>(4.1 x 1.75 x 1.57 in.)<br>VE807T: 6.86 x 4.44 x 4.00 cm<br>(2.7 x 1.75 x 1.57 in.) |
| Faceplate Dimension (L x W x H) | VE807R: 8.60 x 8.60 x 1.60 cm<br>(3.39 x 3.39 x 0.63 in.)                                                                                            | VE807T: 8.60 x 8.60 x 1.60 cm<br>(3.39 x 3.39 x 0.63 in.)                                                             |
| <b>Carton Lot</b>               | 5 pcs                                                                                                                                                | 5 pcs                                                                                                                 |
| <b>Included Accessories</b>     | 1x Terminal Block (VE806/VE807); 1x Power Adapter (VE806/VE807); 2x MK Type Wall Plate Covers (VE807); 8x Screw Covers (VE807); 1x Screw kit (VE807) |                                                                                                                       |

## Optional Accessories

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| Low Skew Cable             | 2L-2801          | 12-3     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

\*Cables with different lengths are available, please refer to 12-5.



# VE606 / VE607 DVI/Audio Cat 5 Extender with US / MK Wall Plate (1920 x 1200@40m)



60 m PRO

Front



R

VE606R



T

VE606T



VE606

VE607

Rear



R

VE606R



T

VE606T

## Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power\*
- Uses a second Cat 5e cable for dual link signals
- Superior video quality up to 1920 x 1200 @ 60 Hz (40 m) and 1280 x 1024 @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
  - VE606: Decora type design for US
  - VE607: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: \*A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

## Specifications

| Function                        | VE606R / 607R                                                                                                                                        | VE606T / 607T                                                                                                         |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>              |                                                                                                                                                      |                                                                                                                       |
| Interfaces                      | N/A                                                                                                                                                  | 1 x DVI-D Female (White)                                                                                              |
| Impedance                       | N/A                                                                                                                                                  | 100 Ω                                                                                                                 |
| <b>Video Output</b>             |                                                                                                                                                      |                                                                                                                       |
| Interfaces                      | 1 x DVI-D Female (White)                                                                                                                             | N/A                                                                                                                   |
| Impedance                       | 100 Ω                                                                                                                                                | N/A                                                                                                                   |
| <b>Video</b>                    |                                                                                                                                                      |                                                                                                                       |
| Max. Data Rate                  | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                       | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                        |
| Max. Pixel Clock                | 225 MHz                                                                                                                                              | 225 MHz                                                                                                               |
| Compliance                      | HDCP Compatible                                                                                                                                      | HDCP Compatible                                                                                                       |
| Max. Resolutions / Distance     | Up to 1920 x 1200@40m; 1280 x 1024@60m                                                                                                               | Up to 1920 x 1200@40m; 1280 x 1024@60m                                                                                |
| <b>Audio</b>                    |                                                                                                                                                      |                                                                                                                       |
| Input                           | N/A                                                                                                                                                  | 1 x Mini Stereo Jack Female (Green)                                                                                   |
| Output                          | 1 x Mini Stereo Jack Female (Green)                                                                                                                  | N/A                                                                                                                   |
| <b>Connectors</b>               |                                                                                                                                                      |                                                                                                                       |
| Power                           | 1 x Terminal Block (Green)                                                                                                                           | 1 x Terminal Block (Green)                                                                                            |
| <b>Power Consumption</b>        |                                                                                                                                                      |                                                                                                                       |
|                                 | VE606R:DC9V:2.26W<br>VE607R:DC9V:0.81W                                                                                                               | VE606T:DC9V:2.31W<br>VE607T:DC9V:1.35W                                                                                |
| <b>Environmental</b>            |                                                                                                                                                      |                                                                                                                       |
| Operating Temperature           | 0 - 50°C                                                                                                                                             | 0 - 50°C                                                                                                              |
| Storage Temperature             | -20 - 60°C                                                                                                                                           | -20 - 60°C                                                                                                            |
| Humidity                        | 0 - 80% RH, Non-Condensing                                                                                                                           | 0 - 80% RH, Non-Condensing                                                                                            |
| <b>Physical Properties</b>      |                                                                                                                                                      |                                                                                                                       |
| Housing                         | Metal                                                                                                                                                | Metal                                                                                                                 |
| Weight                          | 0.18 kg ( 0.4 lb )                                                                                                                                   | 0.18 kg ( 0.4 lb )                                                                                                    |
| Dimensions (L x W x H)          | VE606R: 10.41 x 4.44 x 4.34 cm<br>(4.1 x 1.75 x 1.71 in.)<br>VE607R: 6.86 x 4.44 x 4.34 cm<br>(2.7 x 1.75 x 1.71 in.)                                | VE606T: 10.41 x 4.44 x 4.34 cm<br>(4.1 x 1.75 x 1.71 in.)<br>VE607T: 6.86 x 4.44 x 4.34 cm<br>(2.7 x 1.75 x 1.71 in.) |
| Faceplate Dimension (L x W x H) | VE607R: 8.60 x 8.60 x 1.60 cm<br>(3.39 x 3.39 x 0.63 in.)                                                                                            | VE607T: 8.60 x 8.60 x 1.60 cm<br>(3.39 x 3.39 x 0.63 in.)                                                             |
| <b>Carton Lot</b>               | 5 pcs                                                                                                                                                | 5 pcs                                                                                                                 |
| <b>Included Accessories</b>     | 1x Terminal Block (VE606/VE607); 1x Power Adapter (VE606/VE607); 2x MK Type Wall Plate Covers (VE607); 8x Screw Covers (VE607); 1x Screw kit (VE607) |                                                                                                                       |
| <b>Optional Accessories</b>     | Please refer to 9-59                                                                                                                                 |                                                                                                                       |

## VE156 / VE157 VGA/Audio Cat 5 Extender with US / MK Wall Plate (1280 x 1024 @150 m)



150 m **PRO**

Front



R

VE156R



T

VE156T



VE156



VE157



Rear



R

VE156R



T

VE156T

### Features

- Uses two Cat 5e/6 cables to connect the local and remote units - one to transmit video and audio; the other to supply power\*
- Superior video quality up to 1920 x 1200 @ 60 Hz (30 m) and 1280 x 1024 @ 60 Hz (150 m)
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Wall-mountable
  - VE156: Decora type design for US
  - VE157: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: \*A second Cat 5e cable connection is required to remotely power on either the transmitter or receiver.

### Specifications

| Function                        | VE156R / 157R                                                                                                                                        | VE156T / 157T                                                                                                   |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Video Input                     |                                                                                                                                                      |                                                                                                                 |
| Interfaces                      | N/A                                                                                                                                                  | 1 x HDB-15 Female (Blue)                                                                                        |
| Impedance                       | N/A                                                                                                                                                  | 100 Ω                                                                                                           |
| Video Output                    |                                                                                                                                                      |                                                                                                                 |
| Interfaces                      | 1 x HDB-15 Female (Blue)                                                                                                                             | N/A                                                                                                             |
| Impedance                       | 100 Ω                                                                                                                                                | N/A                                                                                                             |
| Video                           |                                                                                                                                                      |                                                                                                                 |
| Max. Bandwidth                  | 300 MHz                                                                                                                                              | 300 MHz                                                                                                         |
| Max. Resolutions / Distance     | Up to 1920 x 1200@30m; 1280 x 1024@150m                                                                                                              | Up to 1920 x 1200@30m; 1280 x 1024@150m                                                                         |
| Audio                           |                                                                                                                                                      |                                                                                                                 |
| Input                           | N/A                                                                                                                                                  | 1 x Mini Stereo Jack Female (Green)                                                                             |
| Output                          | 1 x Mini Stereo Jack Female (Green)                                                                                                                  | N/A                                                                                                             |
| Connectors                      |                                                                                                                                                      |                                                                                                                 |
| Powwer                          | 1 x Terminal Block (Green)                                                                                                                           | 1 x Terminal Block (Green)                                                                                      |
| Power Consumption               | VE156R: DC9V: 1.65W<br>VE157R: DC9V: 0.95W                                                                                                           | VE156T: DC9V: 0.95W<br>VE157T: DC9V: 1.65W                                                                      |
| Environmental                   |                                                                                                                                                      |                                                                                                                 |
| Operating Temperature           | 0 - 50°C                                                                                                                                             | 0 - 50°C                                                                                                        |
| Storage Temperature             | -20 - 60°C                                                                                                                                           | -20 - 60°C                                                                                                      |
| Humidity                        | 0 - 80% RH, Non-Condensing                                                                                                                           | 0 - 80% RH, Non-Condensing                                                                                      |
| Physical Properties             |                                                                                                                                                      |                                                                                                                 |
| Housing                         | Metal                                                                                                                                                | Metal                                                                                                           |
| Weight                          | 0.18 kg ( 0.4 lb )                                                                                                                                   | 0.18 kg ( 0.4 lb )                                                                                              |
| Dimensions (L x W x H)          | VE156R: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.)<br>VE157R: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)                                      | VE156T: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.)<br>VE157T: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.) |
| Faceplate Dimension (L x W x H) | VE157R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)                                                                                               | VE157T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)                                                          |
| Carton Lot                      | 5 pcs                                                                                                                                                | 5 pcs                                                                                                           |
| Included Accessories            | 1x Terminal Block (VE156/VE157); 1x Power Adapter (VE156/VE157); 2x MK Type Wall Plate Covers (VE157); 8x Screw Covers (VE157); 1x Screw kit (VE157) |                                                                                                                 |
| Optional Accessories            | Please refer to 9-59                                                                                                                                 |                                                                                                                 |



# Wireless



## Location Flexibility

Wireless WHDI technology provides line-of-sight transmission to receivers up to 30m away. Place in a central location or on a movable platform. Keep sources hidden from sight.



## Plug-and-Play

A software independent solution with no extra software/driver installation needed. Connect your Full HD displays and source devices to set up a multimedia environment with 5.1 channel surround sound, controlled by infrared.

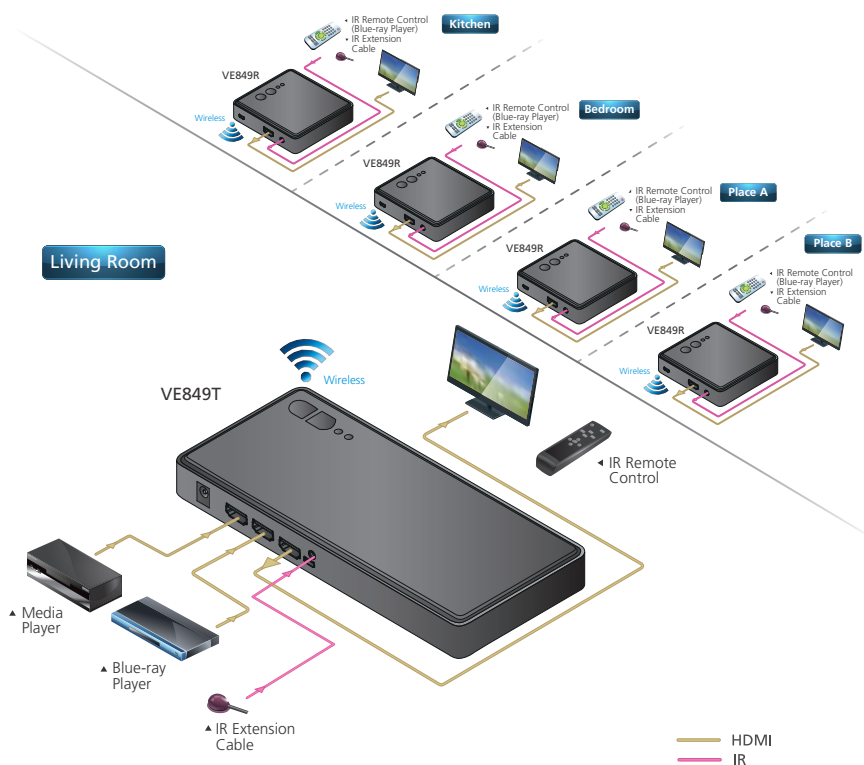


## High Performance & Security

The WHDI protocol ensures a bandwidth of 6.75 Gbps, with less than 1ms latency, while its 5 GHz proprietary wireless transmission provides higher protection against hackers in comparison to Wifi. Even more, there is AES 128 bit encryption plus HDCP to further guarantee secure content transmission.

9

## Setup > VE849



# VE819 HDMI Dongle Wireless Extender (1080p@10m) 10 m



## Features

- Connects 1 HDMI input to 1 HDMI output via wireless extension up to 10 m\*
- IR remote control switches connection between multiple HDMI dongle transmitters
- WHDI™ Technology - Low latency <1ms  
- Uncompressed video transmission
- Extends signals up to 10 m, up to 7 m with superior image quality
- Plug-and-play

Note: \*Distance may vary depending on the actual environment; solid objects such as steel, concrete or brick may cause interference and shorten the transmission distances.

## Specifications

| Function                    | VE819R                                                                                                                                 | VE819T                                         |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                        |                                                |
| Interfaces                  | N/A                                                                                                                                    | 1 x HDMI Type A Male (Black)                   |
| Impedance                   | N/A                                                                                                                                    | 100 Ω                                          |
| Max. Distance               | N/A                                                                                                                                    | N/A                                            |
| <b>Video Output</b>         |                                                                                                                                        |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                         | N/A                                            |
| Impedance                   | 100 Ω                                                                                                                                  | N/A                                            |
| <b>Video</b>                |                                                                                                                                        |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                         | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                                                                                                                | 225 MHz                                        |
| Compliance                  | HDMI (3D); HDCP Compatible                                                                                                             | HDMI (3D); HDCP Compatible                     |
| Max. Resolutions / Distance | Up to 1080p / 60Hz@10m (Line of Sight)                                                                                                 | Up to 1080p / 60Hz@10m (Line of Sight)         |
| <b>Audio</b>                |                                                                                                                                        |                                                |
| Input                       | N/A                                                                                                                                    | 1 x HDMI Type A Male (Black)                   |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                         | N/A                                            |
| <b>Control</b>              |                                                                                                                                        |                                                |
| IR                          | 1 x 2.5mm Mini Stereo Jack Female (Black)                                                                                              | N/A                                            |
| <b>Connectors</b>           |                                                                                                                                        |                                                |
| Power                       | 1 x Mini USB Jack                                                                                                                      | 1 x Mini USB Jack                              |
| <b>Power Consumption</b>    |                                                                                                                                        |                                                |
|                             | DC5V: 7.5W (Mini USB)                                                                                                                  | DC5V (Mini USB)                                |
| <b>Environmental</b>        |                                                                                                                                        |                                                |
| Operating Temperature       | 0 - 40°C                                                                                                                               | 0 - 40°C                                       |
| Storage Temperature         | -20 - 60°C                                                                                                                             | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                             | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                                                                                                        |                                                |
| Housing                     | Plastic                                                                                                                                | Plastic                                        |
| Weight                      | 0.13 kg ( 0.29 lb )                                                                                                                    | 0.03 kg ( 0.07 lb )                            |
| Dimensions (L x W x H)      | 9.50 x 9.50 x 3.33 cm (3.74 x 3.74 x 1.31 in.)                                                                                         | 3.00 x 7.03 x 1.75 cm (1.18 x 2.77 x 0.69 in.) |
| <b>Carton Lot</b>           |                                                                                                                                        |                                                |
|                             | 5 pcs                                                                                                                                  | 5 pcs                                          |
| <b>Included Accessories</b> |                                                                                                                                        |                                                |
|                             | 1x Mini USB to USB Cable; 2x Mini USB Power Adapters; 1x HDMI Cable; 1x Remote Control Unit with 2 AAA Batteries; 1x IR Receiver cable |                                                |

## Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available, please refer to 12-5.

# VE849 Multicast HDMI Wireless Extender (1080p@30m) 30 m



Front



Rear



## Features

- Connects 2 HDMI inputs to 5 HDMI outputs (1 local + 4 remote) via wireless extension up to 30m\*
- **Multicast signal** – 1 transmitter streams HDMI transmissions up to 4 receivers simultaneously
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology - Low latency <1ms  
- Uncompressed video transmission

Note\*: Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distances.

## Specifications

| Function                    | VE849R                                                                                                                                                             | VE849T                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                    |                                                 |
| Interfaces                  | N/A                                                                                                                                                                | 2 x HDMI Type A Female (Black)                  |
| Impedance                   | N/A                                                                                                                                                                | 100 Ω                                           |
| Max. Distance               | N/A                                                                                                                                                                | 1.8 m                                           |
| <b>Video Output</b>         |                                                                                                                                                                    |                                                 |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                     | 1 x HDMI Type A Female (Black)                  |
| Impedance                   | 100 Ω                                                                                                                                                              | 100 Ω                                           |
| <b>Video</b>                |                                                                                                                                                                    |                                                 |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                                     | 6.75 Gbps (2.25 Gbps Per Lane)                  |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                            | 225 MHz                                         |
| Compliance                  | HDMI (3D); HDCP Compatible                                                                                                                                         | HDMI (3D); HDCP Compatible                      |
| Max. Resolutions / Distance | Up to 1080p@30m (Line of Sight)                                                                                                                                    | Up to 1080p@30m (Line of Sight)                 |
| <b>Audio</b>                |                                                                                                                                                                    |                                                 |
| Input                       | N/A                                                                                                                                                                | 2 x HDMI Type A Female (Black)                  |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                                                     | 1 x HDMI Type A Female (Black)                  |
| <b>Control</b>              |                                                                                                                                                                    |                                                 |
| IR                          | 1 x 2.5mm Mini Stereo Jack Female (Black)                                                                                                                          | 1 x 2.5mm Mini Stereo Jack Female (Black)       |
| <b>Connectors</b>           |                                                                                                                                                                    |                                                 |
| Power                       | 1 x DC Jack (Mini USB)                                                                                                                                             | 1 x DC Jack                                     |
| <b>Power Consumption</b>    |                                                                                                                                                                    |                                                 |
|                             | DC5V: 7.5W (Mini USB)                                                                                                                                              | DC5V: 10W                                       |
| <b>Environmental</b>        |                                                                                                                                                                    |                                                 |
| Operating Temperature       | 0 - 40°C                                                                                                                                                           | 0 - 40°C                                        |
| Storage Temperature         | -20 - 60°C                                                                                                                                                         | -20 - 60°C                                      |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                         | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b>  |                                                                                                                                                                    |                                                 |
| Housing                     | Plastic                                                                                                                                                            | Plastic                                         |
| Weight                      | 0.13 kg ( 0.29 lb )                                                                                                                                                | 0.21 kg ( 0.46 lb )                             |
| Dimensions (L x W x H)      | 9.50 x 9.50 x 3.50 cm (3.74 x 3.74 x 1.38 in.)                                                                                                                     | 18.00 x 9.50 x 3.00 cm (7.09 x 3.74 x 1.18 in.) |
| <b>Carton Lot</b>           |                                                                                                                                                                    |                                                 |
|                             | 5 pcs                                                                                                                                                              | 5 pcs                                           |
| <b>Included Accessories</b> |                                                                                                                                                                    |                                                 |
|                             | VE849T: 1x IR Remote Control with 2 AAA Batteries; 1x IR Blaster Cable; 1x Power Adapter<br>VE849R: 1x Mini USB Power Adapter; 1x IR Receiver Cable; 1x HDMI Cable |                                                 |

## Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available, please refer to 12-5.

# VE829 5x2 HDMI Wireless Extender (1080p@30m) 30 m



## Features

- 5 x 2 Matrix - allows you to switch and independently select any of 5 sources (4 x HDMI connectors, 1 x component connector) between 2 HDTVs
- USB HID ports on the transmitter and receiver units enable wireless keyboard connectivity for control over connected computer
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology – Low latency < 1ms
  - Uncompressed video transmission
- 2 HDMI output displays – different source contents can be displayed at the two displays (one at the local side and the other at the remote side)

Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

## Specifications

| Function                    | VE829R                                                                                                                                                                 | VE829T                                                                         |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                        |                                                                                |
| Interfaces                  | N/A                                                                                                                                                                    | 4 x HDMI Type A Female (Black);<br>1 x Component Video Female (Blue/Green/Red) |
| Impedance                   | N/A                                                                                                                                                                    | 100 Ω                                                                          |
| Max. Distance               | N/A                                                                                                                                                                    | 1.8m                                                                           |
| <b>Video Output</b>         |                                                                                                                                                                        |                                                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                         | 1 x HDMI Type A Female (Black)                                                 |
| Impedance                   | 100 Ω                                                                                                                                                                  | 100 Ω                                                                          |
| <b>Video</b>                |                                                                                                                                                                        |                                                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                                         | 6.75 Gbps (2.25 Gbps Per Lane)                                                 |
| Max. Pixel Clock            | 225 MHz                                                                                                                                                                | 225 MHz                                                                        |
| Compliance                  | HDMI (3D); HDCP Compatible                                                                                                                                             | HDMI (3D); HDCP Compatible                                                     |
| Max. Resolutions / Distance | Up to 1080p@30m (Line of Sight)                                                                                                                                        | Up to 1080p@30m (Line of Sight)                                                |
| <b>Audio</b>                |                                                                                                                                                                        |                                                                                |
| Input                       | N/A                                                                                                                                                                    | 4 x HDMI Type A Female (Black);<br>1 x Component Audio Female (Red/White)      |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                                                         | 1 x HDMI Type A Female (Black)                                                 |
| <b>Control</b>              |                                                                                                                                                                        |                                                                                |
| IR                          | 1 x 2.5mm Jack Female (Black)                                                                                                                                          | 1 x 2.5mm Jack Female (Black)                                                  |
| <b>Connectors</b>           |                                                                                                                                                                        |                                                                                |
| Power                       | 1 x DC Jack (Mini USB)                                                                                                                                                 | 1 x DC Jack                                                                    |
| <b>Power Consumption</b>    |                                                                                                                                                                        |                                                                                |
|                             | DC5V: 6.7W (Mini USB)                                                                                                                                                  | DC5V: 9.5W                                                                     |
| <b>Environmental</b>        |                                                                                                                                                                        |                                                                                |
| Operating Temperature       | 0 - 40°C                                                                                                                                                               | 0 - 40°C                                                                       |
| Storage Temperature         | -20 - 60°C                                                                                                                                                             | -20 - 60°C                                                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                             | 0 - 80% RH, Non-Condensing                                                     |
| <b>Physical Properties</b>  |                                                                                                                                                                        |                                                                                |
| Housing                     | Plastic                                                                                                                                                                | Plastic                                                                        |
| Weight                      | 0.13 kg ( 0.29 lb )                                                                                                                                                    | 0.28 kg ( 0.62 lb )                                                            |
| Dimensions (L x W x H)      | 9.50 x 9.50 x 3.55 cm (3.74 x 3.74 x 1.40 in.)                                                                                                                         | 23.40 x 6.65 x 3.25 cm (9.21 x 2.62 x 1.28 in.)                                |
| <b>Carton Lot</b>           |                                                                                                                                                                        |                                                                                |
|                             | 5 pcs                                                                                                                                                                  | 5 pcs                                                                          |
| <b>Included Accessories</b> |                                                                                                                                                                        |                                                                                |
|                             | 2x Remote Controls with batteries; 1x Component Adapter Cable; 1x IR Blaster Cable (VE829T);<br>1x IR Sensor Extender Cable (VE829R); 2x Power Adapters; 1x HDMI Cable |                                                                                |

## Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available, please refer to 12-5.



## VE809 HDMI Wireless Extender (1080p@30m) 30 m



### Features

- Connects 2 HDMI inputs to 2 HDMI outputs (1 local + 1 remote) via wireless extension
- Transmits video content from Blu-ray DVD player, HD cable box or other HDMI devices wirelessly
- A built-in IR receiver for remote control of input devices
- WHDI™ technology – Low latency < 1ms  
– Uncompressed video transmission
- IR Return Channel – enables wireless control of input sources from remote site
- Plug-and-play

R Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

T

### Specifications

| Function                    | VE809R                                                                                                                                      | VE809T                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                             |                                                |
| Interfaces                  | N/A                                                                                                                                         | 2 x HDMI Type A Female (Black)                 |
| Impedance                   | N/A                                                                                                                                         | 100 Ω                                          |
| Max. Distance               | N/A                                                                                                                                         | Up to 1.8 m                                    |
| <b>Video Output</b>         |                                                                                                                                             |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                              | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | 100 Ω                                                                                                                                       | 100 Ω                                          |
| <b>Video</b>                |                                                                                                                                             |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                              | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                                                                                                                     | 225 MHz                                        |
| Compliance                  | HDMI (3D); HDCP Compatible                                                                                                                  | HDMI (3D); HDCP Compatible                     |
| Max. Resolutions / Distance | Up to 1080p@30m                                                                                                                             | Up to 1080p@30m                                |
| <b>Audio</b>                |                                                                                                                                             |                                                |
| Input                       | N/A                                                                                                                                         | 2 x HDMI Type A Female (Black)                 |
| Output                      | 1 x HDMI Type A Female (Black)                                                                                                              | 1 x HDMI Type A Female (Black)                 |
| <b>Control</b>              |                                                                                                                                             |                                                |
| IR                          | 1 x 2.5mm Mini Stereo Jack Female (Black)                                                                                                   | 1 x 2.5mm Mini Stereo Jack Female (Black)      |
| <b>Connectors</b>           |                                                                                                                                             |                                                |
| Power                       | 1 x DC Jack (Mini USB)                                                                                                                      | 1 x DC Jack                                    |
| <b>Power Consumption</b>    |                                                                                                                                             |                                                |
|                             | DC5V: 7.84W                                                                                                                                 | DC5V: 6.58W                                    |
| <b>Environmental</b>        |                                                                                                                                             |                                                |
| Operating Temperature       | 0 - 40°C                                                                                                                                    | 0 - 40°C                                       |
| Storage Temperature         | -20 - 60°C                                                                                                                                  | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                  | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                                                                                                             |                                                |
| Housing                     | Plastic                                                                                                                                     | Plastic                                        |
| Weight                      | 0.33 kg ( 0.73 lb )                                                                                                                         | 0.21 kg                                        |
| Dimensions (L x W x H)      | 9.50 x 9.50 x 3.15 cm (3.74 x 3.74 x 1.24 in.)                                                                                              | 18.20 x 9.65 x 3.15 cm (7.17 x 3.8 x 1.24 in.) |
| <b>Carton Lot</b>           |                                                                                                                                             |                                                |
|                             | 5 pcs                                                                                                                                       | 5 pcs                                          |
| <b>Included Accessories</b> |                                                                                                                                             |                                                |
|                             | 1x IR Remote Control; 1x IR Blaster Cable; 1x HDMI Cable ; 1x Mini USB; Power Adapter (VE809R); 1x Power Adapter (VE809T); 2x AAA Batteries |                                                |

### Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available, please refer to 12-5.



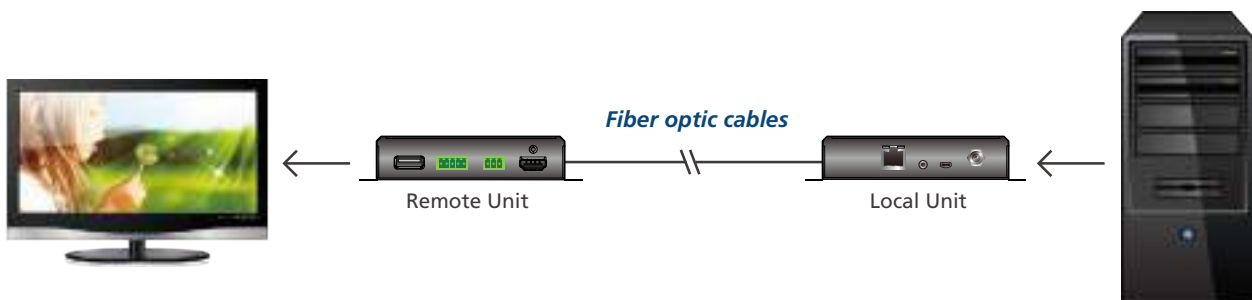
## Optical / AOC



### Optical Transmission

ATEN offers 4K HDMI fiber optic extender solutions that transmit 4K HDMI up to 10km and 1080p up to 20km and incorporate bi-directional RS-232 and IR channels.

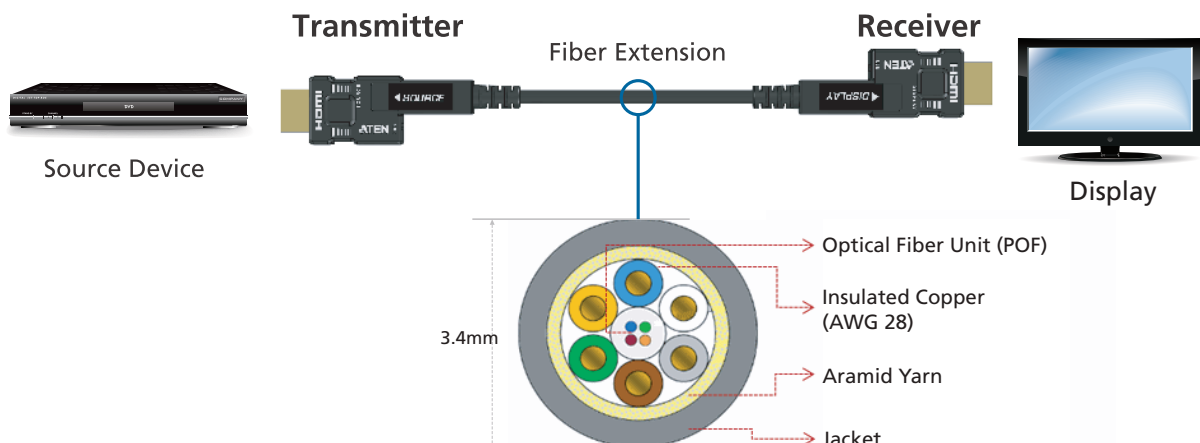
**HDMI™**  
HIGH DEFINITION MULTIMEDIA INTERFACE



### AOC Transmission

ATEN also offers a True 4K HDMI 2.0 Active Optical Cable which is EMI-resistant and fully compliant with HDCP 2.2 and HDMI 2.0, including 3D, deep color, and data rates up to 18 Gbps.

**Setup** > VE7832 / V7833 / VE7834 / VE7835



# VE883 4K HDMI Optical Extender (4K@300m (K1, MM) / 10km (K2, SM))



300 m

10 km



Audio Channel



## Features

- Extends HDMI video, stereo audio, IR control, and RS-232 control signals over duplex fiber optic cables
- Duplex optical fiber cables to connect the transmitter and receiver units
- HDCP 2.2 compatible
- Supports 4K signals up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Bi-directional IR channel for IR signal transmission; full-range IR transmission (30 - 56 KHz) is processed one direction at a time
- Bi-directional RS-232 channel transmits signals over optic cable to control a display or other device
- Supports USB 2.0 up to 25M Byte/s
- Supports 10M/100M/1G Ethernet channel
- Rack-mountable

## Specifications

| Function                               | VE883R                                                                                                                                              | VE883T                                                                                              |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                                                     |                                                                                                     |
| Interfaces                             | N/A                                                                                                                                                 | 1 x HDMI Type A Female (Black)                                                                      |
| Impedance                              | N/A                                                                                                                                                 | 100 Ω                                                                                               |
| Max. Distance                          | N/A                                                                                                                                                 | Up to 5 m                                                                                           |
| <b>Video Output</b>                    |                                                                                                                                                     |                                                                                                     |
| Interfaces                             | 1 x HDMI Type A Female (Black)                                                                                                                      | N/A                                                                                                 |
| Impedance                              | 100 Ω                                                                                                                                               | N/A                                                                                                 |
| Max. Distance                          | Up to 10 m                                                                                                                                          | N/A                                                                                                 |
| <b>Video</b>                           |                                                                                                                                                     |                                                                                                     |
| Max. Data Rate                         | 10.2 Gbps (3.4 Gbps Per Lane)                                                                                                                       | 10.2 Gbps (3.4 Gbps Per Lane)                                                                       |
| Max. Pixel Clock                       | 340 MHz                                                                                                                                             | 340 MHz                                                                                             |
| Compliance                             | HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible                                                                                                      | HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible                                                      |
| Max. Resolution                        | 4096x2160/3840x2160@60Hz (4:2:0);<br>4096x2160/3840x2160@30Hz (4:4:4)                                                                               | 4096x2160/3840x2160@60Hz (4:2:0);<br>4096x2160/3840x2160@30Hz (4:4:4)                               |
| Max. Distance                          | 1 x SFP Module (Note)<br>VE883K1: up to 300m (MM, OM3), (Black)<br>VE883K2: up to 10km (SM), (Blue)                                                 | 1 x SFP Module (Note)<br>VE883K1: up to 300m (MM, OM3), (Black)<br>VE883K2: up to 10km (SM), (Blue) |
| <b>Audio</b>                           |                                                                                                                                                     |                                                                                                     |
| Input                                  | N/A                                                                                                                                                 | 1 x Terminal Block, 5 pole (Green)                                                                  |
| Output                                 | 1 x Terminal Block, 5 pole (Green)                                                                                                                  | N/A                                                                                                 |
| <b>Connectors</b>                      |                                                                                                                                                     |                                                                                                     |
| Unit To Unit                           | 1 x bi-directional SFP (LC)                                                                                                                         | 1 x bi-directional SFP (LC)                                                                         |
| Firmware Upgrade                       | 1 x Micro USB (Type B) Female (Black)                                                                                                               | 1 x Micro USB (Type B) Female (Black)                                                               |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                                                    | 1 x DC Jack (Black) with locking                                                                    |
| <b>Power Consumption</b>               | DC5V: 6.77W                                                                                                                                         | DC5V: 7.05W                                                                                         |
| <b>Fiber Optics</b>                    |                                                                                                                                                     |                                                                                                     |
| Data Rate                              | 10.3 Gbps                                                                                                                                           | 10.3 Gbps                                                                                           |
| Wavelength                             | VE883K1: 850 nm; VE883K2: 1310 nm                                                                                                                   | VE883K1: 850 nm; VE883K2: 1310 nm                                                                   |
| Fiber Type                             | VE883K1: Multi mode(MM), OM3, LC Duplex Type<br>VE883K2: Single mode(SM), LC Duplex Type                                                            | VE883K1: Multi mode(MM), OM3, LC Duplex Type<br>VE883K2: Single mode(SM), LC Duplex Type            |
| <b>Control</b>                         |                                                                                                                                                     |                                                                                                     |
| USB Channel                            | 1 x USB Type A Female (White)                                                                                                                       | 1 x USB Type B Female (White)                                                                       |
| RS-232 Channel                         | 1 x Terminal Block, 3 pole (Green)                                                                                                                  | 1 x Terminal Block, 3 pole (Green)                                                                  |
| IR Channel                             | 1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission                                                                              | 1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission                              |
| Ethernet Channel                       | 1 x RJ-45 Female                                                                                                                                    | 1 x RJ-45 Female                                                                                    |
| <b>Environmental</b>                   |                                                                                                                                                     |                                                                                                     |
| Operating Temperature                  | 0 - 40°C                                                                                                                                            | 0 - 40°C                                                                                            |
| Storage Temperature                    | -20 - 60°C                                                                                                                                          | -20 - 60°C                                                                                          |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                                                          | 0 - 80% RH, Non-Condensing                                                                          |
| <b>Physical Properties</b>             |                                                                                                                                                     |                                                                                                     |
| Housing                                | Metal                                                                                                                                               | Metal                                                                                               |
| Weight                                 | 0.64 kg ( 1.41 lb )                                                                                                                                 | 0.64 kg ( 1.41 lb )                                                                                 |
| Dimensions (L x W x H) with bracket    | 16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)                                                                                                    | 16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)                                                    |
| Dimensions (L x W x H) without bracket | 16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)                                                                                                    | 16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)                                                    |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                                               | 5 pcs                                                                                               |
| <b>Included Accessories</b>            | 2x Power Adapters; 2x Terminal Block 3 Pole; 2x Terminal Block 5 Pole; 1x IR Receiver; 1x IR Emitter; 1x USB Cable; 2 xHDMI LockPro; 2x SFP Modules |                                                                                                     |
| <b>Optional Accessories</b>            | Please refer to 9-59                                                                                                                                |                                                                                                     |

Note: 1. It is recommended that you use Single Mode fibers that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications; Use Multi Mode fibers that conform to IEC 11801 (OM3) specifications.  
2. The Device is class 1 laser product. It meets the safety regulations of IEC/EN 60825-1, 21 CFR 1040.10, and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

# VE882 HDMI Optical Extender (1080p@600m)

# VE892 HDMI Optical Extender (1080p@20km)

600 m  
(VE882)

20 km  
(VE892)

PRO

TAIWAN  
EXCELLENCE  
2014

HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE



A/V In  
HDMI



A/V Out  
HDMI

RS-232 Channel

IR Channel

FIBER

Wide  
Screen  
Support

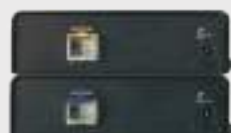
Front



## Features

- Extends an HDMI / IR / RS-232 connection via one optical fiber cable
- Connects the local and remote units via one optical fiber cable
- Bi-directional RS-232 channel transmits signals over optical fiber cable to control a display or other device
- [Bi-directional IR channel](#) for IR signal control; full range IR transmission (30~56 KHz) is processed one direction at a time
- Hot-pluggable
- Rack-mountable

Rear (VE882)



R

T

Rear (VE892)



R

T

## Specifications

| Function               | VE882R / VE892R                                                                                                                                                       | VE882T / VE892T                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input            |                                                                                                                                                                       |                                                                                                                                                                       |
| Interfaces             | N/A                                                                                                                                                                   | 1 x HDMI Type A Female (Black)                                                                                                                                        |
| Impedance              | N/A                                                                                                                                                                   | 100 Ω                                                                                                                                                                 |
| Max. Distance          | N/A                                                                                                                                                                   | Up to 1.8 m                                                                                                                                                           |
| Video Output           |                                                                                                                                                                       |                                                                                                                                                                       |
| Interfaces             | 1 x HDMI Type A Female (Black)                                                                                                                                        | N/A                                                                                                                                                                   |
| Impedance              | 100 Ω                                                                                                                                                                 | N/A                                                                                                                                                                   |
| Video                  |                                                                                                                                                                       |                                                                                                                                                                       |
| Max. Data Rate         | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                                        | 6.75 Gbps (2.25 Gbps Per Lane)                                                                                                                                        |
| Max. Pixel Clock       | 225 MHz                                                                                                                                                               | 225 MHz                                                                                                                                                               |
| Compliance             | HDMI (3D, Deep Color); HDCP 1.4 Compatible                                                                                                                            | HDMI (3D, Deep Color); HDCP 1.4 Compatible                                                                                                                            |
| Max. Resolution        | Up to 1080p                                                                                                                                                           | Up to 1080p                                                                                                                                                           |
| Max. Distance          | VE882R: 1 x SFP Module (Note)<br>600m @ Single mode (SM) fiber<br>300m @ OM3 Multi mode (MM) filber<br>VE892R: 1 x SFP Module (Note)<br>20km @ Single mode (SM) fiber | VE882T: 1 x SFP Module (Note)<br>600m @ Single mode (SM) fiber<br>300m @ OM3 Multi mode (MM) filber<br>VE892T: 1 x SFP Module (Note)<br>20km @ Single mode (SM) fiber |
| Audio                  |                                                                                                                                                                       |                                                                                                                                                                       |
| Input                  | N/A                                                                                                                                                                   | 1 x HDMI Type A Female (Black)                                                                                                                                        |
| Output                 | 1 x HDMI Type A Female (Black)                                                                                                                                        | N/A                                                                                                                                                                   |
| Connectors             |                                                                                                                                                                       |                                                                                                                                                                       |
| Unit To Unit           | 1 x bi-directional SFP (LC)                                                                                                                                           | 1 x bi-directional SFP (LC)                                                                                                                                           |
| Power                  | 1 x DC Jack                                                                                                                                                           | 1 x DC Jack                                                                                                                                                           |
| Power Consumption      | DC5.3V: 4.69W                                                                                                                                                         | DC5.3V: 5.80W                                                                                                                                                         |
| Control                |                                                                                                                                                                       |                                                                                                                                                                       |
| IR Channel             | 1 x Mini Stereo Jack Female (Black);<br>30~56 KHz full range transmission                                                                                             | 1 x Mini Stereo Jack Female (Black);<br>30~56 KHz full range transmission                                                                                             |
| RS-232 Channel         | 1 x Terminal Block, 3 pole (Green)                                                                                                                                    | 1 x Terminal Block, 3 pole (Green)                                                                                                                                    |
| Environmental          |                                                                                                                                                                       |                                                                                                                                                                       |
| Operating Temperature  | 0 - 40°C                                                                                                                                                              | 0 - 40°C                                                                                                                                                              |
| Storage Temperature    | -20 - 60°C                                                                                                                                                            | -20 - 60°C                                                                                                                                                            |
| Humidity               | 0 - 80% RH, Non-Condensing                                                                                                                                            | 0 - 80% RH, Non-Condensing                                                                                                                                            |
| Physical Properties    |                                                                                                                                                                       |                                                                                                                                                                       |
| Housing                | Metal                                                                                                                                                                 | Metal                                                                                                                                                                 |
| Weight                 | 0.44 kg ( 0.97 lb )                                                                                                                                                   | 0.44 kg ( 0.97 lb )                                                                                                                                                   |
| Dimensions (L x W x H) | 14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)                                                                                                                      | 14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)                                                                                                                      |
| Carton Lot             | 5 pcs                                                                                                                                                                 | 5 pcs                                                                                                                                                                 |
| Included Accessories   | 1x IR Transmitter; 1x IR Receiver; 1x Mounting Kit; 2x Power Adapters                                                                                                 |                                                                                                                                                                       |
| Optional Accessories   | Please refer to 9-59                                                                                                                                                  |                                                                                                                                                                       |

Note: 1. Operating distance is approximate. A typical maximum distance may vary depending on factors such as fiber type, bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

2. It is recommended that you use a Single Mode optical fiber cable that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications.

3. The VE882 supports OM3 optical fiber which can extend the transmission distance up to 300 meters.

# VE7832 / VE7833 / VE7834 / VE7835 True 4K HDMI 2.0 Active Optical Cable (True 4K@15m/30m/60m/100m)



## Features

- Supports resolution up to True 4K (4096 x 2160 @ 60Hz 4:4:4)
- HDMI 2.0 (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Supports HDR
- Pluggable gender for easy installation
- Extends True 4K signals up to 100 m
- High data transfer rate of 18 Gbps
- Robust design – 500 N pulling strength & compression load resistance
- Additional power source is available via Micro USB cable
- Multi channel audio - Dolby TrueHD and DTS-HD
- Reduced EMI and RFI for lower noise interference
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum)

## Specifications

| Function                    | VE7832                                                                                                                                                                                          | VE7833             | VE7834             | VE7835              |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|---------------------|
| <b>Cable Length</b>         | 15m                                                                                                                                                                                             | 30m                | 60m                | 100m                |
| <b>Video Input</b>          |                                                                                                                                                                                                 |                    |                    |                     |
| Interfaces                  | 1 x HDMI 19-pin Type-A Male (gold-plated) pluggable (Black)<br>1 x HDMI Type-D Male (Black)                                                                                                     |                    |                    |                     |
| <b>Video Output</b>         |                                                                                                                                                                                                 |                    |                    |                     |
| Interfaces                  | 1 x HDMI 19-pin Type-A Male (gold-plated) pluggable (Black)<br>1 x HDMI Type-D Male (Black)                                                                                                     |                    |                    |                     |
| <b>Video</b>                |                                                                                                                                                                                                 |                    |                    |                     |
| Max. Data Rate              | 18 Gbps (6 Gbps per Channel)                                                                                                                                                                    |                    |                    |                     |
| Max. Pixel Clock            | 600 MHz (Max.)                                                                                                                                                                                  |                    |                    |                     |
| Compliance                  | HDMI 2.0 (3D, Deep Color, 4K, HDR); HDCP 2.2<br>Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0<br>Color Depth: 30 / 36 / 48 bit                                                                      |                    |                    |                     |
| Max. Resolutions            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)                                                                                                                                                  |                    |                    |                     |
| <b>Audio</b>                |                                                                                                                                                                                                 |                    |                    |                     |
| Input                       | PCM 8-channel, Dolby Digital TrueHD, DTS-HD Master Audio                                                                                                                                        |                    |                    |                     |
| Output                      | PCM 8-channel, Dolby Digital TrueHD, DTS-HD Master Audio                                                                                                                                        |                    |                    |                     |
| <b>Conductor</b>            |                                                                                                                                                                                                 |                    |                    |                     |
| Construction                | 6 x Insulated Copper wire (28 AWG); 4 x Fiber                                                                                                                                                   |                    |                    |                     |
| <b>Jacketed</b>             |                                                                                                                                                                                                 |                    |                    |                     |
| Material                    | UL Plenum ( CMP-OF)                                                                                                                                                                             |                    |                    |                     |
| <b>Certifications</b>       |                                                                                                                                                                                                 |                    |                    |                     |
| Certifications              | Safety and Emission: CE / FCC / RoHS2 / UL CMP-OF<br>Bend Radius: 6mm (Min.)<br>Connector Pull Strength: Max. 10kg (100N)<br>Compression Load Resistance: Max. 50kg (500N)<br>Reduced EMI & RFI |                    |                    |                     |
| <b>Notification</b>         |                                                                                                                                                                                                 |                    |                    |                     |
| <b>Communication</b>        |                                                                                                                                                                                                 |                    |                    |                     |
| Signals                     | TMDS / HDCP 2.2 / EDID / CEC                                                                                                                                                                    |                    |                    |                     |
| <b>Power (Optional)</b>     | Optional power source: Micro USB to USB cable (45cm); 5V, 0.148A                                                                                                                                |                    |                    |                     |
| <b>Cable Type</b>           | Cable Type: Hybrid optical with fiber and copper wire<br>HDMI Standards: High Speed HDMI Cable (HDMI 2.0)                                                                                       |                    |                    |                     |
| <b>Power Consumption</b>    | DC5.3V: 0.63W                                                                                                                                                                                   | DC5.3V: 0.63W      | DC5.3V: 0.63W      | DC5.3V: 0.63W       |
| <b>Environmental</b>        |                                                                                                                                                                                                 |                    |                    |                     |
| Operating Temperature       | 0 - 50°C                                                                                                                                                                                        |                    |                    |                     |
| Storage Temperature         | -20 - 70°C                                                                                                                                                                                      |                    |                    |                     |
| Humidity                    | 0 - 85% RH, Non-Condensing                                                                                                                                                                      |                    |                    |                     |
| <b>Physical Properties</b>  |                                                                                                                                                                                                 |                    |                    |                     |
| Cable Outer Dimension       | Cable Outer Diameter: 3.4mm (± 0.2mm)                                                                                                                                                           |                    |                    |                     |
| Conductor Gauge             | Copper wire (28 AWG)                                                                                                                                                                            |                    |                    |                     |
| Conductor Material          | Copper                                                                                                                                                                                          |                    |                    |                     |
| Housing                     | Connector Case: ABS (Acrylonitrile Butadiene Styrene)                                                                                                                                           |                    |                    |                     |
| Weight                      | 0.28 kg ( 0.62 lb )                                                                                                                                                                             | 0.50 kg ( 1.1 lb ) | 1.00 kg ( 2.2 lb ) | 1.64 kg ( 3.61 lb ) |
| <b>Carton Lot</b>           | 10 pcs                                                                                                                                                                                          | 10 pcs             | 5 pcs              | 5 pcs               |
| <b>Included Accessories</b> | 1x Wiring Tool; 2x Screws; 1x Micro USB to USB Cable; 1x Installation Notice                                                                                                                    |                    |                    |                     |



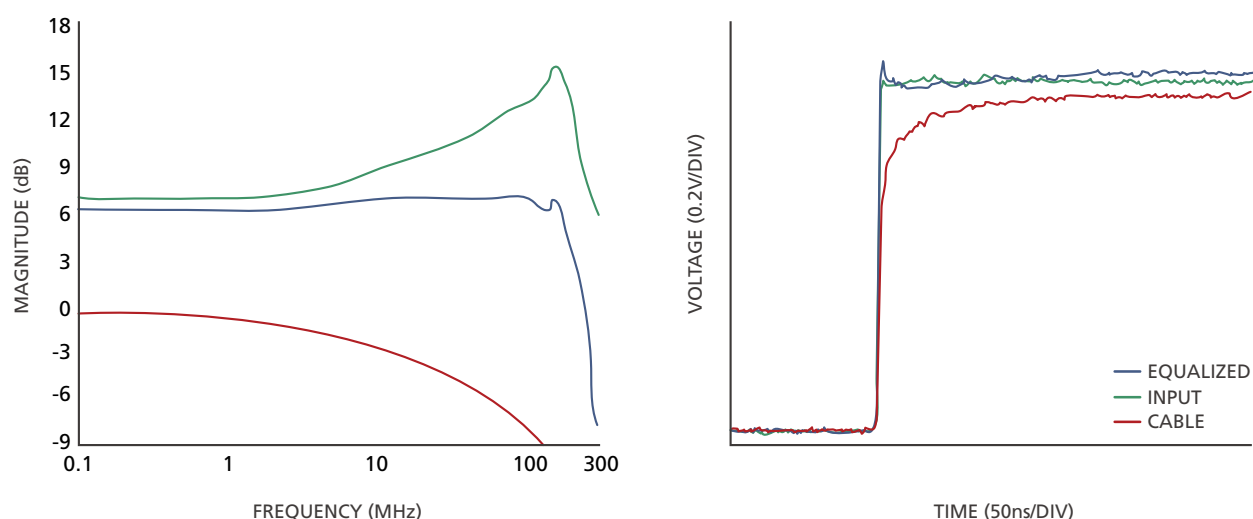
## More Extender Solutions



### Cat 5/Cat 6 Extenders

ATEN provides a wide range of long distance extension solutions utilizing equalizer technology that connect via Cat5e/6/6a cables, including HDMI, HDMI/USB, HDMI/IR, Mini DVI, Dual Link DVI with Audio, VGA, VGA with Audio, and VGA/Audio/RS-232 models.

For high speed signals, such as DVI and HDMI, there is serious decay after long-distance transmission. Equalizer technology compensates for signal loss at various frequencies, with higher frequency signals decaying more after long-distance transmission, as shown below. ATEN Cat 5/Cat 6 extenders use equalizer technology to recover the signal and bring the video quality back to normal.



### Boosters

ATEN Boosters amplify and transmit signals to increase distances in your AV installation. Solutions that support True 4K HDMI up to 20m/1080P up to 40m, and 1280x1024 VGA up to 70m, as well as other DVI and VGA models, are available.



# VE800A HDMI Cat 5 Extender (1080p@40m) 60 m



Front



R

T

Rear



R

T

## Features

- Extends an HDMI connection via single Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable is required to connect between VE800AT and VE800AR if EDID Bypass and/or HDCP authentication needs to be enabled.

## Specifications

| Function                    | VE800AR                                        | VE800AT                                        |
|-----------------------------|------------------------------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                |                                                |
| Interfaces                  | N/A                                            | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | N/A                                            | 100 $\Omega$                                   |
| <b>Video Output</b>         |                                                |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                 | N/A                                            |
| Impedance                   | 100 $\Omega$                                   | N/A                                            |
| <b>Video</b>                |                                                |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                 | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                        | 225 MHz                                        |
| Compliance                  | HDMI (3D, Deep Color); HDCP Compatible         | HDMI (3D); HDCP Compatible                     |
| Max. Resolutions / Distance | Up to 1080p@40m; 1080i@60m                     | Up to 1080p@40m; 1080i@60m                     |
| <b>Audio</b>                |                                                |                                                |
| Input                       | N/A                                            | 1 x HDMI Type A Female (Black)                 |
| Output                      | 1 x HDMI Type A Female (Black)                 | N/A                                            |
| <b>Connectors</b>           |                                                |                                                |
| Power                       | 1 x DC Jack                                    | 1 x DC Jack                                    |
| <b>Power Consumption</b>    |                                                |                                                |
|                             | DC5V: 0.61W                                    | DC5V: 0.9W                                     |
| <b>Environmental</b>        |                                                |                                                |
| Operating Temperature       | 0 - 50°C                                       | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                     | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                     | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                |                                                |
| Housing                     | Metal                                          | Metal                                          |
| Weight                      | 0.16 kg ( 0.35 lb )                            | 0.16 kg ( 0.35 lb )                            |
| Dimensions (L x W x H)      | 9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.) | 9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.) |
| <b>Carton Lot</b>           |                                                |                                                |
|                             | 5 pcs                                          | 5 pcs                                          |
| <b>Included Accessories</b> |                                                |                                                |
|                             | 2x Power Adapters; 1x Mounting Kit             |                                                |

## Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |

\*Cables with different lengths are available, please refer to 12-5.

## VE803 HDMI/USB Cat 5 Extender (1080p@40m) 60 m



Front



R

Rear



R



T



T

### Features

- Extends an HDMI connection via Cat 5e cable
- **Supports Transparent USB connectivity** to all USB 2.0 full speed devices, such as a touch panel
- Transmitter unit can be powered on via USB
- Supports 8-segment equalization adjustment via switch
- **ATEN EDID Technology** – features ATEN default EDID
- Rack-mountable

### Specifications

| Function                    | VE803R                                          | VE803T                                         |
|-----------------------------|-------------------------------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                 |                                                |
| Interfaces                  | N/A                                             | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | N/A                                             | 100 Ω                                          |
| <b>Video Output</b>         |                                                 |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                  | N/A                                            |
| Impedance                   | 100 Ω                                           | N/A                                            |
| <b>Video</b>                |                                                 |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                  | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                         | 225 MHz                                        |
| Compliance                  | HDMI (3D, Deep Color); HDCP Compatible          | HDMI (3D); HDCP Compatible                     |
| Max. Resolutions / Distance | Up to 1080p@40m; 1080i@60m                      | Up to 1080p@40m; 1080i@60m                     |
| <b>Audio</b>                |                                                 |                                                |
| Input                       | N/A                                             | 1 x HDMI Type A Female (Black)                 |
| Output                      | 1 x HDMI Type A Female (Black)                  | N/A                                            |
| <b>Connectors</b>           |                                                 |                                                |
| Power                       | 1 x DC Jack                                     | 1 x DC Jack                                    |
| <b>Control</b>              |                                                 |                                                |
| USB                         | 1 x USB Type A Female                           | 1 x USB Type B Female                          |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default                       | <b>EDID Mode:</b> Default                      |
| <b>Power Consumption</b>    | DC5V: 0.75W                                     | DC5V: 1.04W                                    |
| <b>Environmental</b>        |                                                 |                                                |
| Operating Temperature       | 0 - 50°C                                        | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                      | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                 |                                                |
| Housing                     | Metal                                           | Metal                                          |
| Weight                      | 0.16 kg ( 0.35 lb )                             | 0.16 kg ( 0.35 lb )                            |
| Dimensions (L x W x H)      | 9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)  | 9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.) |
| <b>Carton Lot</b>           | 5 pcs                                           | 5 pcs                                          |
| <b>Included Accessories</b> | 1x Power Adapter; 1x USB Cable; 1x Mounting Kit |                                                |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |

\*Cables with different lengths are available, please refer to 12-5.

## VE810 HDMI/IR Cat 5 Extender (1080p@40m) 60 m



(VE810R)



### Features

- Extends an HDMI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Compatible for use with all ATEN HDMI switches and splitters
- The remote unit can be powered on from the local unit via a Cat 5e cable
- [Bi-directional IR channel](#) for IR signal control; IR transmission is processed one direction at a time
- Rack-mountable

### Specifications

| Function                    | VE810L                                                                            | VE810R                                         |
|-----------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                                                   |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                    | N/A                                            |
| Impedance                   | 100 $\Omega$                                                                      | N/A                                            |
| Max. Distance               | 1.8 m                                                                             | N/A                                            |
| <b>Video Output</b>         |                                                                                   |                                                |
| Interfaces                  | N/A                                                                               | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | N/A                                                                               | 100 $\Omega$                                   |
| <b>Video</b>                |                                                                                   |                                                |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                    | 6.75 Gbps (2.25 Gbps Per Lane)                 |
| Max. Pixel Clock            | 225 MHz                                                                           | 225 MHz                                        |
| Compliance                  | HDMI (3D, Deep Color); HDCP 1.4 Compatible                                        | HDMI (3D, Deep Color); HDCP 1.4 Compatible     |
| Max. Resolutions / Distance | Up to 1080p@40m; 1080i@60m                                                        | Up to 1080p@40m; 1080i@60m                     |
| <b>Audio</b>                |                                                                                   |                                                |
| Input                       | 1 x HDMI Type A Female (Black)                                                    | N/A                                            |
| Output                      | N/A                                                                               | 1 x HDMI Type A Female (Black)                 |
| <b>Connectors</b>           |                                                                                   |                                                |
| Power                       | 1 x DC Jack                                                                       | 1 x DC Jack                                    |
| <b>Control</b>              |                                                                                   |                                                |
| IR                          | 1 x Mini Stereo Jack Female (Black)                                               | 1 x Mini Stereo Jack Female (Black)            |
| <b>Power Consumption</b>    | DC5V: 2.41W                                                                       | DC5V: 1.06W                                    |
| <b>Environmental</b>        |                                                                                   |                                                |
| Operating Temperature       | 0 - 50°C                                                                          | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                                                        | -20 - 60°C                                     |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                        | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                                                   |                                                |
| Housing                     | Metal                                                                             | Metal                                          |
| Weight                      | 0.16 kg ( 0.35 lb )                                                               | 0.16 kg ( 0.35 lb )                            |
| Dimensions (L x W x H)      | 9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)                                    | 9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.) |
| <b>Carton Lot</b>           | 20 pcs                                                                            | 20 pcs                                         |
| <b>Included Accessories</b> | 1x Power Adapter (Local Unit); 1x Mounting Kit; 1x IR Receiver; 1x IR Transmitter |                                                |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| IR Receiver Cable   | 2XRT-0003G       | 13-2     |

\*Cables with different lengths are available, please refer to 12-5.

## VE602 DVI Dual Link/Audio Cat 5 Extender (2560 x 1600@40m)

60 m

PRO



Front



Rear



### Features

- Extends a DVI connection via Cat 5e cable
- Uses a second Cat 5e cable for dual link signals
- Supports 8-segment equalization adjustment via switch
- **ATEN EDID Technology** – features ATEN default EDID and learning of the EDID from the display connected to the Transmitter (VE602T)
- Rack-mountable

\*The VE602 does not support HDCP

### Specifications

| Function                    | VE602R                                                                                  | VE602T                                                                                  |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Video Input                 |                                                                                         |                                                                                         |
| Interfaces                  | N/A                                                                                     | 1 x DVI-D Female (White)                                                                |
| Impedance                   | N/A                                                                                     | 100 Ω                                                                                   |
| Max. Distance               | N/A                                                                                     | 1.8 m                                                                                   |
| Video Output                |                                                                                         |                                                                                         |
| Interfaces                  | 1 x DVI-D Female (White)                                                                | N/A                                                                                     |
| Impedance                   | 100 Ω                                                                                   | N/A                                                                                     |
| Video                       |                                                                                         |                                                                                         |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                                                          | 6.75 Gbps (2.25 Gbps Per Lane)                                                          |
| Max. Pixel Clock            | 225 MHz                                                                                 | 225 MHz                                                                                 |
| Max. Resolutions / Distance | Dual Link: up to 2560 x 1600@40m<br>Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m | Dual Link: up to 2560 x 1600@40m<br>Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m |
| Audio                       |                                                                                         |                                                                                         |
| Input                       | N/A                                                                                     | 1 x Mini Stereo Jack Female (Green)                                                     |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                     | N/A                                                                                     |
| Connectors                  |                                                                                         |                                                                                         |
| Power                       | 1 x DC Jack                                                                             | 1 x DC Jack                                                                             |
| Power Consumption           | DC5.3V: 2.4W                                                                            | DC5.3V: 2.86W                                                                           |
| Environmental               |                                                                                         |                                                                                         |
| Operating Temperature       | 0 - 50°C                                                                                | 0 - 50°C                                                                                |
| Storage Temperature         | -20 - 60°C                                                                              | -20 - 60°C                                                                              |
| Humidity                    | 0% - 80% RH, Non-condensing                                                             | 0% - 80% RH, Non-condensing                                                             |
| Physical Properties         |                                                                                         |                                                                                         |
| Housing                     | Metal                                                                                   | Metal                                                                                   |
| Weight                      | 0.18 kg ( 0.4 lb )                                                                      | 0.18 kg ( 0.4 lb )                                                                      |
| Dimensions (L x W x H)      | 9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)                                           | 9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)                                           |
| Carton Lot                  | 20 pcs                                                                                  | 20 pcs                                                                                  |
| Included Accessories        | 2x Power Adapters; 1x Mounting Kit                                                      |                                                                                         |

Note: HDCP is not supported

### Optional Accessories

| Description          | Part No. / Spec. | Page No. |
|----------------------|------------------|----------|
| HDBaseT Cat 6 Cable  | 2L-2910          | 12-1     |
| Low Skew Cable       | 2L-2801          | 12-3     |
| DVI Cable with Audio | 2L-7D02V         | 12-6     |
| Dual Link DVI Cable* | 2L-7D03DD (3 m)  | 12-6     |

\*Cables with different lengths are available, please refer to 12-5.

## VE600A DVI/Audio Extender (1920 x 1200@40m) 60 m PRO



### Features

- Extends a DVI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable connection (DDC) is required to remotely power on either the transmitter or receiver and also to bypass EDID & HDCP signals.

Front



Rear



### Specifications

| Function                    | VE600AL                                       | VE600AR                                       |
|-----------------------------|-----------------------------------------------|-----------------------------------------------|
| <b>Video Input</b>          |                                               |                                               |
| Interfaces                  | 1 x DVI-D Female (White)                      | N/A                                           |
| Impedance                   | 100 $\Omega$                                  | N/A                                           |
| Max. Distance               | 1.8 m                                         | N/A                                           |
| <b>Video Output</b>         |                                               |                                               |
| Interfaces                  | N/A                                           | 1 x DVI-D Female (White)                      |
| Impedance                   | N/A                                           | 100 $\Omega$                                  |
| <b>Video</b>                |                                               |                                               |
| Max. Data Rate              | 6.75 Gbps (2.25 Gbps Per Lane)                | 6.75 Gbps (2.25 Gbps Per Lane)                |
| Max. Pixel Clock            | 225 MHz                                       | 225 MHz                                       |
| Compliance                  | HDCP Compatible                               | HDCP Compatible                               |
| Max. Resolutions / Distance | Up to 1080p@40m; 1080i@60m                    | Up to 1080p@40m; 1080i@60m                    |
| <b>Audio</b>                |                                               |                                               |
| Input                       | 1 x Mini Stereo Jack Female (Green)           | N/A                                           |
| Output                      | N/A                                           | 1 x Mini Stereo Jack Female (Green)           |
| <b>Connectors</b>           |                                               |                                               |
| Power                       | 1 x DC Jack                                   | 1 x DC Jack                                   |
| <b>Power Consumption</b>    |                                               |                                               |
|                             | DC5.3V: 1.56W                                 | DC5.3V: 0.76W                                 |
| <b>Environmental</b>        |                                               |                                               |
| Operating Temperature       | 0 - 50°C                                      | 0 - 50°C                                      |
| Storage Temperature         | -20 - 60°C                                    | -20 - 60°C                                    |
| Humidity                    | 0% - 80% RH, Non-condensing                   | 0% - 80% RH, Non-condensing                   |
| <b>Physical Properties</b>  |                                               |                                               |
| Housing                     | Metal                                         | Metal                                         |
| Weight                      | 0.17 kg ( 0.37 lb )                           | 0.17 kg ( 0.37 lb )                           |
| Dimensions (L x W x H)      | 9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.) | 9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.) |
| <b>Carton Lot</b>           |                                               |                                               |
|                             | 20 pcs                                        | 20 pcs                                        |
| <b>Included Accessories</b> |                                               |                                               |
|                             | 2x Power Adapters; 1x Mounting Kit            |                                               |

### Optional Accessories

| Description          | Part No. / Spec. | Page No. |
|----------------------|------------------|----------|
| HDBaseT Cat 6 Cable  | 2L-2910          | 12-1     |
| Low Skew Cable       | 2L-2801          | 12-3     |
| DVI Cable with Audio | 2L-7D02V         | 12-6     |

## VE066 Mini DVI Cat 5 Extender (1080p@15m)

15 m



### Features

- Extends a DVI connection via Cat 5e cable
- Compatible for use with all ATEN DVI switches and splitters
- **Smart Video Display** – image quality is optimized based on available resolution of the output device
- Compact size ideal for limited space installation
- Hot-pluggable

### Specifications

| Function                    | VE066R                                        | VE066T                                        |
|-----------------------------|-----------------------------------------------|-----------------------------------------------|
| <b>Video Input</b>          |                                               |                                               |
| Interfaces                  | N/A                                           | 1 x DVI-D Male (Gold)                         |
| Impedance                   | N/A                                           | 100 Ω                                         |
| <b>Video Output</b>         |                                               |                                               |
| Interfaces                  | 1 x DVI-D Male (Gold)                         | N/A                                           |
| Impedance                   | 100 Ω                                         | N/A                                           |
| <b>Video</b>                |                                               |                                               |
| Max. Data Rate              | 4.95 Gbps (1.65 Gbps Per Lane)                | 4.95 Gbps (1.65 Gbps Per Lane)                |
| Max. Pixel Clock            | 165 MHz                                       | 165 MHz                                       |
| Compliance                  | HDCP Compatible                               | HDCP Compatible                               |
| <b>Power Consumption</b>    |                                               |                                               |
| DC5V: 0.12W                 |                                               |                                               |
| Max. Resolutions / Distance | Up to 1080p@15m; 1080i@20m                    | Up to 1080p@15m; 1080i@20m                    |
| <b>Environmental</b>        |                                               |                                               |
| Operating Temperature       | 0 - 50°C                                      | 0 - 50°C                                      |
| Storage Temperature         | -20 - 60°C                                    | -20 - 60°C                                    |
| Humidity                    | 0% - 80% RH, Non-condensing                   | 0% - 80% RH, Non-condensing                   |
| <b>Physical Properties</b>  |                                               |                                               |
| Housing                     | Plastic                                       | Plastic                                       |
| Weight                      | 0.05 kg ( 0.11 lb )                           | 0.05 kg ( 0.11 lb )                           |
| Dimensions (L x W x H)      | 5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.) | 5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.) |
| <b>Carton Lot</b>           |                                               |                                               |
|                             | 20 pcs                                        | 20 pcs                                        |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |

## VE022 Mini VGA/Audio Cat 5 Extender (1280 x 1024@150m) 150 m



Front



R

T

Rear



R

T

### Features

- Extends a VGA connection via Cat 5e cable
- Convenient docking interface for mounting on the display device
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable

### Specifications

| Function                    | VE022R                                                                                      | VE022T                                         |
|-----------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                                                             |                                                |
| Interfaces                  | N/A                                                                                         | 1 x HDB-15 Male (Black)                        |
| Impedance                   | N/A                                                                                         | 75 Ω                                           |
| <b>Video Output</b>         |                                                                                             |                                                |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                                    | N/A                                            |
| Impedance                   | 75 Ω                                                                                        | N/A                                            |
| <b>Video</b>                |                                                                                             |                                                |
| Max. Bandwidth              | 300 MHz                                                                                     | 300 MHz                                        |
| Max. Resolutions / Distance | Up to 1920 x 1200@30m; 1280 x 1024@150m                                                     | Up to 1920 x 1200@30m; 1280 x 1024@150m        |
| <b>Audio</b>                |                                                                                             |                                                |
| Input                       | N/A                                                                                         | 1 x Mini Stereo Jack Female (Green)            |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                         | N/A                                            |
| <b>Connectors</b>           |                                                                                             |                                                |
| Power                       | 1 x DC Jack                                                                                 | 1 x DC Jack                                    |
| <b>Power Consumption</b>    |                                                                                             |                                                |
|                             | DC5V: 0.95W                                                                                 | DC5V: 0.62W                                    |
| <b>Environmental</b>        |                                                                                             |                                                |
| Operating Temperature       | 0 - 50°C                                                                                    | 0 - 50°C                                       |
| Storage Temperature         | -20 - 60°C                                                                                  | -20 - 60°C                                     |
| Humidity                    | 0% - 80% RH, Non-condensing                                                                 | 0% - 80% RH, Non-condensing                    |
| <b>Physical Properties</b>  |                                                                                             |                                                |
| Housing                     | Metal                                                                                       | Metal                                          |
| Weight                      | 0.05 kg ( 0.11 lb )                                                                         | 0.05 kg ( 0.11 lb )                            |
| Dimensions (L x W x H)      | 6.42 x 3.53 x 2.06 cm (2.53 x 1.39 x 0.81 in.)                                              | 7.35 x 3.53 x 2.06 cm (2.89 x 1.39 x 0.81 in.) |
| <b>Carton Lot</b>           |                                                                                             |                                                |
|                             | 20 pcs                                                                                      | 20 pcs                                         |
| <b>Included Accessories</b> |                                                                                             |                                                |
|                             | 1x Power Adapter; 1x VGA Cable; 1x Audio Cable ; 1x Dock Mount kit; 1x USB to DC Power Cord |                                                |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |



## VE150A VGA Cat 5 Extender (1280 x 1024@150m) 150 m



Front



Rear



### Features

- Extends a VGA connection via Cat 5e cable
- Supports one local and one remote VGA display
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable
- Rack-mountable

### Specifications

| Function                    | VE150AR                                          | VE150AT                                         |
|-----------------------------|--------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                  |                                                 |
| Interfaces                  | N/A                                              | 1 x HDB-15 Male (Blue)                          |
| Impedance                   | N/A                                              | 75 Ω                                            |
| Max. Distance               | N/A                                              | 1.8 m                                           |
| <b>Video Output</b>         |                                                  |                                                 |
| Interfaces                  | 1 x HDB-15 Female (Blue)                         | N/A                                             |
| Impedance                   | 75 Ω                                             | N/A                                             |
| <b>Video</b>                |                                                  |                                                 |
| Max. Bandwidth              | 300 MHz                                          | 300 MHz                                         |
| Max. Resolutions / Distance | Up to 1920 x 1200@30m; 1280 x 1024@150m          | Up to 1920 x 1200@30m; 1280 x 1024@150m         |
| <b>Connectors</b>           |                                                  |                                                 |
| Power                       | 1 x DC Jack                                      | 1 x DC Jack                                     |
| <b>Power Consumption</b>    | DC5.3V: 1.05W                                    | DC5.3V: 0.99W                                   |
| <b>Environmental</b>        |                                                  |                                                 |
| Operating Temperature       | 0 - 50°C                                         | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                       | -20 - 60°C                                      |
| Humidity                    | 0% - 80% RH, Non-condensing                      | 0% - 80% RH, Non-condensing                     |
| <b>Physical Properties</b>  |                                                  |                                                 |
| Housing                     | Metal                                            | Metal                                           |
| Weight                      | 0.24 kg ( 0.53 lb )                              | 0.24 kg ( 0.53 lb )                             |
| Dimensions (L x W x H)      | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)  | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.) |
| <b>Carton Lot</b>           | 5 pcs                                            | 5 pcs                                           |
| <b>Included Accessories</b> | 2x Power Adapters; 1x VGA Cable; 1x Mounting Kit |                                                 |

### Optional Accessories

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| VGA EDID Emulator   | 2A-130G          | 10-19    |

# VE170 / VE170Q VGA/Audio Cat 5 Extender (1024 x 768@300m) 300 m PRO



(VE170Q)

## Front



## Rear



## Features

- Extends a VGA (with Audio) connection via Cat 5e cable
- Supports one local and one remote VGA display
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable
- Deskew Function (VE170RQ) – allows you to synchronize the time delay of RGB signals to compensate for distance

Note: Package option 1: VE170 (VE170T + VE170R)  
Package option 2: VE170Q (VE170T + VE170RQ)

## Specifications

| Function                    | VE170R / VE170RQ                                                                                          | VE170T                                          |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>          |                                                                                                           |                                                 |
| Interfaces                  | N/A                                                                                                       | 1 x HDB-15 Male (Blue)                          |
| Impedance                   | N/A                                                                                                       | 75 Ω                                            |
| Max. Distance               | N/A                                                                                                       | 1.8 m                                           |
| <b>Video Output</b>         |                                                                                                           |                                                 |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                                                  | 1 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 Ω                                                                                                      | 75 Ω                                            |
| <b>Video</b>                |                                                                                                           |                                                 |
| Max. Bandwidth              | 300 MHz                                                                                                   | 300 MHz                                         |
| Max. Resolutions / Distance | VE170R: Up to 1920 x 1200@30m;<br>1024 x 768@300m<br>VE170RQ: Up to 1920 x 1200@150m;<br>1280 x 1024@300m | Up to 1920 x 1200@30m; 1024 x 768@300m          |
| <b>Audio</b>                |                                                                                                           |                                                 |
| Input                       | N/A                                                                                                       | 1 x Mini Stereo Jack Female (Green)             |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                                       | 1 x Mini Stereo Jack Female (Green)             |
| <b>Connectors</b>           |                                                                                                           |                                                 |
| Power                       | 1 x DC Jack                                                                                               | 1 x DC Jack                                     |
| <b>Power Consumption</b>    |                                                                                                           |                                                 |
|                             | VE170R: DC5.3V: 3.32W<br>VE170RQ: DC5.3V: 5.24W                                                           | DC5.3V: 2.42W                                   |
| <b>Environmental</b>        |                                                                                                           |                                                 |
| Operating Temperature       | 0 - 50°C                                                                                                  | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                                                                                | -20 - 60°C                                      |
| Humidity                    | 0% - 80% RH, Non-condensing                                                                               | 0% - 80% RH, Non-condensing                     |
| <b>Physical Properties</b>  |                                                                                                           |                                                 |
| Housing                     | Metal                                                                                                     | Metal                                           |
| Weight                      | 0.24 kg ( 0.53 lb )                                                                                       | 0.25 kg (0.55 lb)                               |
| Dimensions (L x W x H)      | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)                                                           | 12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.) |
| <b>Carton Lot</b>           | 5 pcs                                                                                                     | 5 pcs                                           |
| <b>Included Accessories</b> | 1x VGA/Audio Cable; 2x Power Adapters; 1x Mounting Kit                                                    |                                                 |
| <b>Optional Accessories</b> | Please refer to 9-59                                                                                      |                                                 |

# VE200 VGA/Audio/RS-232 Cat 5 Extender with Dual Output (1280 x 1024@200m)

200 m

PRO



(VE200R)

Front



R

L

Rear



R

L



## Features

- Extends a VGA connection via Cat 5e cable
- Bi-directional RS-232 channel transmits signals over Cat 5e cable to control a display or other device
- Supports one local and two remote displays
- An IR channel for screen On/Off control and video adjustment at remote site
- **Adjustable Gain Control** – signal strength can be manually adjusted in Video Gain or Video Compensation modes via OSD for optimum display quality
- Rack-mountable

## Specifications

| Function                    | VE200L                                                                                                                                        | VE200R                                          |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Video Input                 |                                                                                                                                               |                                                 |
| Interfaces                  | VE200L: 1 x HDB-15 Male (Blue)                                                                                                                | N/A                                             |
| Impedance                   | 75 Ω                                                                                                                                          | N/A                                             |
| Max. Distance               | 1.8 m                                                                                                                                         | N/A                                             |
| Video Output                |                                                                                                                                               |                                                 |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                                                                                      | 2 x HDB-15 Female (Blue)                        |
| Impedance                   | 75 Ω                                                                                                                                          | 75 Ω                                            |
| Video                       |                                                                                                                                               |                                                 |
| Max. Bandwidth              | 300 MHz                                                                                                                                       | 300 MHz                                         |
| Max. Resolutions / Distance | Up to 1920 x 1200@30m; 1280 x 1024@200m                                                                                                       | Up to 1920 x 1200@30m; 1280 x 1024@200m         |
| Audio                       |                                                                                                                                               |                                                 |
| Input                       | 1 x Mini Stereo Jack Female (Green)                                                                                                           | N/A                                             |
| Output                      | 1 x Mini Stereo Jack Female (Green)                                                                                                           | 2 x Mini Stereo Jack Female (Green)             |
| Control                     |                                                                                                                                               |                                                 |
| RS-232                      | 1 x DB-9 Female (Black), 1 x DB-9 Male (Black)                                                                                                | 2 x DB-9 Male (Black)                           |
| IR(VE200R)                  | 1 x Mini Stereo Jack Female (Black)                                                                                                           | 1 x Mini Stereo Jack Female (Black)             |
| Connectors                  |                                                                                                                                               |                                                 |
| Power                       | 1 x DC Jack                                                                                                                                   | 1 x DC Jack                                     |
| Power Consumption           | DC5.3V: 2.22W                                                                                                                                 | DC5.3V: 3.65W                                   |
| Environmental               |                                                                                                                                               |                                                 |
| Operating Temperature       | 0 - 50°C                                                                                                                                      | 0 - 50°C                                        |
| Storage Temperature         | -20 - 60°C                                                                                                                                    | -20 - 60°C                                      |
| Humidity                    | 0% - 80% RH, Non-condensing                                                                                                                   | 0% - 80% RH, Non-condensing                     |
| Physical Properties         |                                                                                                                                               |                                                 |
| Housing                     | Metal                                                                                                                                         | Metal                                           |
| Weight                      | 0.35 kg ( 0.77 lb )                                                                                                                           | 0.35 kg ( 0.77 lb )                             |
| Dimensions (L x W x H)      | 13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)                                                                                               | 13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.) |
| Carton Lot                  | 5 pcs                                                                                                                                         | 5 pcs                                           |
| Included Accessories        | 1x VGA/Audio Cable; 2x Power Adapters; 1x Infrared Remote Control Handset; 1x Infrared Receiver; 1x Infrared Receiver Holder; 1x Mounting Kit |                                                 |
| Optional Accessories        | Please refer to 9-59                                                                                                                          |                                                 |

## VB905 4K DisplayPort Booster (True 4K@10m) 10 m



Front



Rear



### Features

- Extends True 4K signal transmission up to 5 m
- Compliant with DisplayPort 1.2a and HDCP 2.2
- Superior video quality — up to True 4K resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- Supports HDR
- Cascade 3 levels to extend True 4K signal up to 20 m
- A single unit can be powered from the source device
- Plug-and-play
- Rack-mountable

Note: Longer transmission distance is possible with lower data rates. If you want to remain high quality transmission, please use higher quality cable.

### Specifications

| Function                    | VB905                                            |
|-----------------------------|--------------------------------------------------|
| <b>Video Input</b>          |                                                  |
| Interfaces                  | 1 x DisplayPort Female (20-pin)                  |
| Max. Distance               | Up to 4Kx2K@60Hz (4:4:4) / 5m<br>1080p@60Hz / 5m |
| <b>Video Output</b>         |                                                  |
| Interfaces                  | 1 x DisplayPort Female (20-pin)                  |
| Max. Distance               | Up to 4Kx2K@60Hz (4:4:4) / 5m<br>1080p@60Hz / 5m |
| <b>Video</b>                |                                                  |
| Max. Data Rate              | 21.6 Gpbs (5.4 Gbps Per Lane)                    |
| Compliance                  | DP1.2a<br>HDCP 2.2                               |
| Max. Resolution             | 4096 x 2160@60Hz (4:4:4)                         |
| <b>Connectors</b>           |                                                  |
| Power                       | 1 x DC Jack                                      |
| Power Consumption           | DC5V: 0.94W                                      |
| <b>Environmental</b>        |                                                  |
| Operating Temperature       | 0 - 40°C                                         |
| Storage Temperature         | -20 - 60°C                                       |
| Humidity                    | 0 - 80% RH, Non-Condensing                       |
| <b>Physical Properties</b>  |                                                  |
| Housing                     | Metal                                            |
| Weight                      | 0.05 kg ( 0.11 lb )                              |
| Dimensions (L x W x H)      | 5.84 x 3.53 x 2.06 cm (2.3 x 1.39 x 0.81 in.)    |
| <b>Carton Lot</b>           | 10 pcs                                           |
| <b>Included Accessories</b> | 1 x Power Adapter                                |

## VB800 True 4K HDMI Booster (Ture 4K@20m; 1080p@40m) 40 m



Front



Rear



### Features

- Amplifies and transmits signals from an HDMI input to an HDMI output
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- **Supports True 4K resolutions** up to 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR
- LED indication of source device status
- **Cascadable up to 10 levels with distances at 4K resolutions\***
- Plug-and-play – No software to install
- Rack-mountable

Note: \* The first, fourth, seventh and tenth level devices need to be connected to a power source.

### Specifications

| Function                    | VB800                                         |
|-----------------------------|-----------------------------------------------|
| <b>Video Input</b>          |                                               |
| Interfaces                  | 1 x HDMI Type A Female (Black)                |
| <b>Video Output</b>         |                                               |
| Interfaces                  | 1 x HDMI Type A Female (Black)                |
| <b>Video</b>                |                                               |
| Max. Bandwidth              | 600 MHz                                       |
| Max. Data Rate              | 18Gbps (6 Gbps Per Lane)                      |
| Compliance                  | HDMI, HDCP 2.2 Compatible                     |
| Max. Resolutions / Distance | Up to 4Kx2K@60 Hz (4:4:4)/10m; 1080p@60Hz/20m |
| <b>Connectors</b>           |                                               |
| Power                       | 1 x DC Jack                                   |
| <b>Power Consumption</b>    | DC5V: 0.99W                                   |
| <b>Environmental</b>        |                                               |
| Operating Temperature       | 0 - 40°C                                      |
| Storage Temperature         | -20 - 60°C                                    |
| Humidity                    | 0 - 80% RH, Non-Condensing                    |
| <b>Physical Properties</b>  |                                               |
| Housing                     | Metal                                         |
| Weight                      | 0.09 kg ( 0.21 lb )                           |
| Dimensions (L x W x H)      | 4.90 x 5.60 x 1.70 cm (1.93 x 2.2 x 0.67 in.) |
| <b>Carton Lot</b>           | 10 pcs                                        |
| <b>Included Accessories</b> | 1x Power Adapter; 1x Mounting Kit             |

### Optional Accessories

| Description | Part No. / Spec. | Page No. |
|-------------|------------------|----------|
| HDMI Cable* | 2L-7D02H-1 (2 m) | 12-5     |

\*Cables with different lengths are available, please refer to 12-5.

## VE560 DVI Booster (1920 x 1200@30m) 50 m



Front



Rear



### Features

- Extends a DVI connection over a long distance
- Easy connection to different digital video devices (e.g. STB, LCD monitor, projector, LCD TVs)
- Rack-mountable

### Specifications

| Function                            | VE560                                          |
|-------------------------------------|------------------------------------------------|
| <b>Video Input</b>                  |                                                |
| Interfaces                          | 1 x DVI-D Female (White)                       |
| <b>Video Output</b>                 |                                                |
| Interfaces                          | 1 x DVI-D Female (White)                       |
| <b>Video</b>                        |                                                |
| Max. Data Rate                      | 4.95 Gbps (1.65 Gbps Per Lane)                 |
| Max. Pixel Clock                    | 165 MHz                                        |
| Compliance                          | HDCP Compatible                                |
| Max. Resolutions / Distance         | Up to 1920 x 1200@30m; 1280 x 1024@50m         |
| <b>Connectors</b>                   |                                                |
| Power                               | 1 x DC Jack                                    |
| <b>Power Consumption</b>            | DC5V: 0.86W                                    |
| <b>Environmental</b>                |                                                |
| Operating Temperature               | 0 - 50°C                                       |
| Storage Temperature                 | -20 - 60°C                                     |
| Humidity                            | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>          |                                                |
| Housing                             | Metal                                          |
| Weight                              | 0.32 kg (0.71 lb)                              |
| Dimensions (L x W x H) with bracket | 9.30 x 5.50 x 2.40 cm (3.66 x 2.17 x 0.94 in.) |
| <b>Carton Lot</b>                   | 20 pcs                                         |
| <b>Included Accessories</b>         | 1x Power Adapter; 1x Mounting Kit              |

## VB100 VGA Booster (1280 x 1024@70m) 70 m



Front



Rear



Side



### Features

- Amplifies and transmits signals from a VGA input to a VGA output
- LED indication of source device status
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable

### Specifications

| Function                            | VB100                                          |
|-------------------------------------|------------------------------------------------|
| <b>Video Input</b>                  |                                                |
| Interfaces                          | 1 x HDB-15 Female (Blue)                       |
| Impedance                           | 75 Ω                                           |
| <b>Video Output</b>                 |                                                |
| Interfaces                          | 1 x HDB-15 Female (Blue)                       |
| Impedance                           | 75 Ω                                           |
| <b>Video</b>                        |                                                |
| Max. Bandwidth                      | 300 MHz                                        |
| Max. Resolutions / Distance         | Up to 1920 x 1200@30m; 1280 x 1024@70m         |
| <b>Connectors</b>                   |                                                |
| Power                               | 1 x DC Jack                                    |
| <b>Power Consumption</b>            | DC5V: 0.63W                                    |
| <b>Environmental</b>                |                                                |
| Operating Temperature               | 0 - 50°C                                       |
| Storage Temperature                 | -20 - 60°C                                     |
| Humidity                            | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>          |                                                |
| Housing                             | Metal                                          |
| Weight                              | 0.06 kg ( 0.13 lb )                            |
| Dimensions (L x W x H) with bracket | 3.53 x 6.88 x 2.06 cm (1.39 x 2.71 x 0.81 in.) |
| <b>Carton Lot</b>                   | 10 pcs                                         |
| <b>Included Accessories</b>         | 1x Power Adapter                               |

Note: Please use the power adapter included in the package if VB100 cannot be powered via the source device. Respective length of both VGA cables can vary, but the total length of both cables cannot exceed 70 meters.





Video Extender Rack Mount Kit VE-RMK1U / VE-RMK2U / VE-RMK3U

ATEN's Video Extender Rack Mount Kit offers a range of flexible mounting solutions for installing ATEN video extenders and KVM extenders in a rack. You can choose from three VE-RMK rack mount kits (1U to 3U) to match the extender type you are installing, which allows for a well-organized and easy-to-maintain setup.



VE-RMK1U



VE-RMK2U



Features

- Standard 1U, 2U and 3U designs fit into rack space neatly
- Fixed stand allows extenders to be safely installed on the rack
- Allows easy cabling and maintenance
- Provides flexible rack mounting for 1 to 12 extenders

VE-RMK3U



| Product Name | Compatible Products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VE-RMK1U     | CE100, VE560, VE600A, VE601, VE602, VE800A, VE801, VE803, VE810, VE811, VE901, VE150A, VE170, VE172R, VE802, CE250A, CE700A, CS72D, CS72E, KE6900ST, VE1812, VE2812T, VC1280, VE2812R, VE802, VE812, VE814, VE814A, VE882, VE8900, VE8950, VE892, VS182A, VS182B, VS192, VS194, UC2322, UC2324, UC4852, UC4854, CE350, CE370, CE600, CE602, CE604, CE610A, CE620, CE624, CE750, CE750A, CE770, CE800B, CE820, CE920, CN8000, CN8000A, CS724KM, CS74D, CS74E, VC880, VE1832, VE816R, VE883, VS184B, VS481A, VS481B, VS481C |
| VE-RMK2U     | VE800A, VE803, VE810, VE600A, VE602, VE560, CE100                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VE-RMK3U     | VE800A, VE803, VE810, VE600A, VE602, VE560, CE100, VE601, VE801, VE901                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Optional Accessories

### VE1832

| Description                      | Part No. / Spec. | Page No. |
|----------------------------------|------------------|----------|
| HDMI Cable*                      | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable              | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)       | 2X-EA12          | 13-1     |
| Full Range IR Receiver (38KHz)   | 2XRT-0003G       | 13-2     |
| Full Range IR Emitter (30-56KHz) | 2XRT-0004G       | 13-2     |

### VE1830

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDMI Cable*         | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |

### VE816R

| Description                       | Part No. / Spec.                                               | Page No. |
|-----------------------------------|----------------------------------------------------------------|----------|
| HDMI Cable                        | 2L-7D02H-1 (2m), 2L-7D03H (3m), 2L-7D05H (5m), 2L-7D10H (10m), | 12-5     |
| HDBaseT Cat 6 Cable               | 2L-2910                                                        | 12-1     |
| Full Range IR Receiver (30-56KHz) | 2XRT-0003G-1                                                   | 13-2     |
| Full Range IR Emitter (30-56KHz)  | 2XRT-0004G                                                     | 13-2     |

### VE805R

| Description                       | Part No. / Spec. | Page No. |
|-----------------------------------|------------------|----------|
| HDMI Cable*                       | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable               | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)        | 2X-EA12          | 13-1     |
| Full Range IR Receiver (30-56KHz) | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56KHz)  | 2XRT-0004G       | 13-2     |

### VE2812T / VE2812EUT / VE2812UST

| Description                      | Part No. / Spec. | Page No. |
|----------------------------------|------------------|----------|
| HDMI Cable*                      | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable              | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)       | 2X-EA12          | 13-1     |
| VGA Cable                        | 2L-2502 (2 m)    | 12-6     |
| Full Range IR Receiver (38KHz)   | 2XRT-0003G       | 13-2     |
| Full Range IR Emitter (30-56KHz) | 2XRT-0004G       | 13-2     |

### VE2812R

| Description                      | Part No. / Spec. | Page No. |
|----------------------------------|------------------|----------|
| HDMI Cable*                      | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable              | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)       | 2X-EA12          | 13-1     |
| VGA Cable                        | 2L-5202 (2 m)    | 12-6     |
| Full Range IR Receiver (38KHz)   | 2XRT-0003G       | 13-2     |
| Full Range IR Emitter (30-56KHz) | 2XRT-0004G       | 13-2     |

## VE814A

| Description                       | Part No. / Spec. | Page No. |
|-----------------------------------|------------------|----------|
| HDMI Cable*                       | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable               | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)        | 2X-EA12          | 13-1     |
| Full Range IR Receiver (30-56KHz) | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56KHz)  | 2XRT-0004G       | 13-2     |

\*Cables with different lengths are available, please refer to 12-5.

## VE813A

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

## VE811

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

## VE1812

| Description                       | Part No. / Spec. | Page No. |
|-----------------------------------|------------------|----------|
| HDMI Cable*                       | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable               | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)        | 2X-EA12          | 13-1     |
| Full Range IR Receiver (30-56KHz) | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56KHz)  | 2XRT-0004G       | 13-2     |

## VE812

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable        | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

## VE801 / VE802

| Description                               | Part No. / Spec. | Page No. |
|-------------------------------------------|------------------|----------|
| HDMI Cable*                               | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable                       | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)                | 2X-EA12          | 13-1     |
| Full Range IR Receiver (30-56KHz) (VE802) | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56KHz) (VE802)  | 2XRT-0004G       | 13-2     |

## VE901

| Description                           | Part No. / Spec. | Page No. |
|---------------------------------------|------------------|----------|
| DisplayPort Cable*                    | 2L-7D02DP (1.8m) | 12-6     |
| HDBaseT Cat 6 Cable                   | 2L-2910          | 12-1     |
| Low Skew Cable                        | 2L-2801          | 12-3     |
| LockPro™ (HDMI Cable Lock)            | 2X-EA12          | 13-1     |
| DisplayPort to 4K HDMI Active Adapter | VC986            | 10-14    |
| DisplayPort to VGA Adapter            | VC925            | 10-15    |

## VE601

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |

## VE1801EUT / VE1801UST

| Description                      | Part No. / Spec. | Page No. |
|----------------------------------|------------------|----------|
| HDMI Cable*                      | 2L-7D02H-1 (2 m) | 12-5     |
| HDBaseT Cat 6 Cable              | 2L-2910          | 12-1     |
| LockPro™ (HDMI Cable Lock)       | 2X-EA12          | 13-1     |
| VGA Cable                        | 2L-2502 (2 m)    | 12-6     |
| Full Range IR Receiver (38KHz)   | 2XRT-0003G       | 13-2     |
| Full Range IR Emitter (30-56KHz) | 2XRT-0004G       | 13-2     |

## VE606 / VE607

| Description          | Part No. / Spec. | Page No. |
|----------------------|------------------|----------|
| HDBaseT Cat 6 Cable  | 2L-2910          | 12-1     |
| Low Skew Cable       | 2L-2801          | 12-3     |
| DVI Cable with Audio | 2L-7D02V         | 12-6     |

## VE156 / VE157

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| VGA/Audio Cable     | 2L-2402A         | 12-6     |

\*Cables with different lengths are available, please refer to 11-5 & 11-6.

## VE883

| Description                       | Part No. / Spec. | Page No. |
|-----------------------------------|------------------|----------|
| HDMI Cable*                       | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock)        | 2X-EA12          | 13-1     |
| Full Range IR Receiver (30-56KHz) | 2XRT-0003G-1     | 13-2     |
| Full Range IR Emitter (30-56KHz)  | 2XRT-0004G       | 13-2     |

## VE882 / VE892

| Description                | Part No. / Spec. | Page No. |
|----------------------------|------------------|----------|
| HDMI Cable*                | 2L-7D02H-1 (2 m) | 12-5     |
| LockPro™ (HDMI Cable Lock) | 2X-EA12          | 13-1     |

## VE170 / VE170Q

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| VGA / Audio Cable   | 2L-2402A         | 12-6     |
| VGA EDID Emulator   | 2A-130G          | 10-19    |

## VE200

| Description         | Part No. / Spec. | Page No. |
|---------------------|------------------|----------|
| HDBaseT Cat 6 Cable | 2L-2910          | 12-1     |
| Low Skew Cable      | 2L-2801          | 12-3     |
| VGA / Audio Cable   | 2L-2402A         | 12-6     |
| VGA EDID Emulator   | 2A-130G          | 10-19    |
| IR Remote control   | 2XRT-0301G       | 13-2     |

\*Cables with different lengths are available, please refer to 12-5.

# Video Converters

ATEN Video Converters allow you to connect a video source device to the display device of your choice, equipped with different video interfaces. We provide simple single port-to-port converters which enable you to connect VGA based devices to DVI / HDMI digital displays, and universal interface products which integrate multiple device inputs into a single box for easy converting of various analog-to-digital audio/video signals. With built-in easy-to-use features, this series makes converting connections simple.



- **Major Video Interface Support**

Our products incorporate all current video interfaces including;VGA, DVI, SDI, Mini DisplayPort, DisplayPort and HDMI, while meeting the strict requirements needed for high quality signal conversions.

- **Compact Design**

Compact designs allow a neat and tidy workspace and trouble-free installation - solutions that think of you.

- **Easy Installation**

Flexible convenient installation – with no software or configuration required. Simply make the hardware connections and enjoy the experience.

- **Outstanding Multimedia**

With high-quality video, the integrated audio component delivers an outstanding A/V experience when working with modern multimedia applications and equipment.

- **Audio Extraction**

ATEN's additional audio de-embedder function extracts and converts audio signals from the HDMI input. This means you can choose between analog stereo via RCA connectors and digital audio via optical or coaxial connections for additional methods to produce high quality audio output.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.  
2.Product information is subject to change without prior notice.



## Specifications at a Glance

| Input Interface    | HDMI/DVI                              | HDMI                           | HDMI/VGA                              | HDMI           |                 |             |
|--------------------|---------------------------------------|--------------------------------|---------------------------------------|----------------|-----------------|-------------|
| Output Interface   | HDMI                                  | HDMI                           | HDMI                                  | SDI            | VGA             | VGA         |
| Model              | VC881                                 | VC880                          | VC1280                                | VC840          | VC812           | VC810       |
| Max. Resolution    | HDMI: 3840 x 2160<br>DVI: 1920 x 1200 | 1080p                          | HDMI: 3840 x 2160<br>VGA: 1920 x 1200 | 1080p          | 1920 x 1200     | 1920 x 1200 |
| Audio Input        | HDMI, Stereo                          | HDMI                           | HDMI, Stereo                          | HDMI           | HDMI            | N/A         |
| Audio Output       | HDMI, Optical, Coaxial, Stereo        | HDMI, Optical, Coaxial, Stereo | HDMI                                  | Stereo, S/PDIF | Stereo, Coaxial | N/A         |
| Scaler             | N/A                                   | N/A                            | N/A                                   | N/A            | •               | N/A         |
| Audio Embedding    | •                                     | N/A                            | •                                     | N/A            | N/A             | N/A         |
| Audio De-embedding | •                                     | •                              | N/A                                   | •              | •               | N/A         |

| Input Interface    | SDI                  | VGA             |        |             |
|--------------------|----------------------|-----------------|--------|-------------|
| Output Interface   | HDMI                 | HDMI            | HDMI   | DVI         |
| Model              | VC480                | VC182           | VC180  | VC160A      |
| Max. Resolution    | 1080p                | 1920 x 1200     | 1080p  | 1920 x 1200 |
| Audio Input        | SDI                  | Stereo, Coaxial | Stereo | N/A         |
| Audio Output       | Stereo, S/PDIF, HDMI | HDMI            | HDMI   | N/A         |
| Scaler             | N/A                  | •               | N/A    | N/A         |
| Audio Embedding    | N/A                  | •               | •      | N/A         |
| Audio De-embedding | •                    | N/A             | N/A    | N/A         |

| Input Interface    | DisplayPort |                                            | Mini DisplayPort |                         |
|--------------------|-------------|--------------------------------------------|------------------|-------------------------|
| Output Interface   | HDMI        | VGA / DVI / HDMI                           | HDMI             | VGA / DVI / HDMI        |
| Model              | VC986       | VC925 / VC965 / VC985                      | VC981            | VC920 / VC960 / VC980   |
| Max. Resolution    | 3840 x 2160 | VC925: 1920 x 1200<br>VC965 / VC985: 1080p | 3840 x 2160      | 1920 x 1200             |
| Audio Input        | DisplayPort | VC985: DisplayPort                         | Mini DisplayPort | VC980: Mini DisplayPort |
| Audio Output       | HDMI        | VC985: HDMI                                | HDMI             | VC980: HDMI             |
| Scaler             | N/A         | N/A                                        | N/A              | N/A                     |
| Audio Embedding    | N/A         | N/A                                        | N/A              | N/A                     |
| Audio De-embedding | N/A         | N/A                                        | N/A              | N/A                     |

| Interface         | HDMI            | VGA         | DVI         | HDMI            | VGA         |
|-------------------|-----------------|-------------|-------------|-----------------|-------------|
| Model             | VC081           | VC010       | VC060       | VC080           | 2A-130G     |
| Max. Resolution   | 4K@60Hz (4:4:4) | 1920 x 1200 | 1920 x 1200 | 4K@60Hz (4:2:0) | 1920 x 1200 |
| Audio             | HDMI            | N/A         | N/A         | HDMI            | N/A         |
| EDID              | •               | •           | •           | •               | •           |
| RS-232 Connection | N/A             | •           | •           | •               | N/A         |



## VC881 4K HDMI/DVI to HDMI Converter with Audio De-embedder

SPDIF



Front

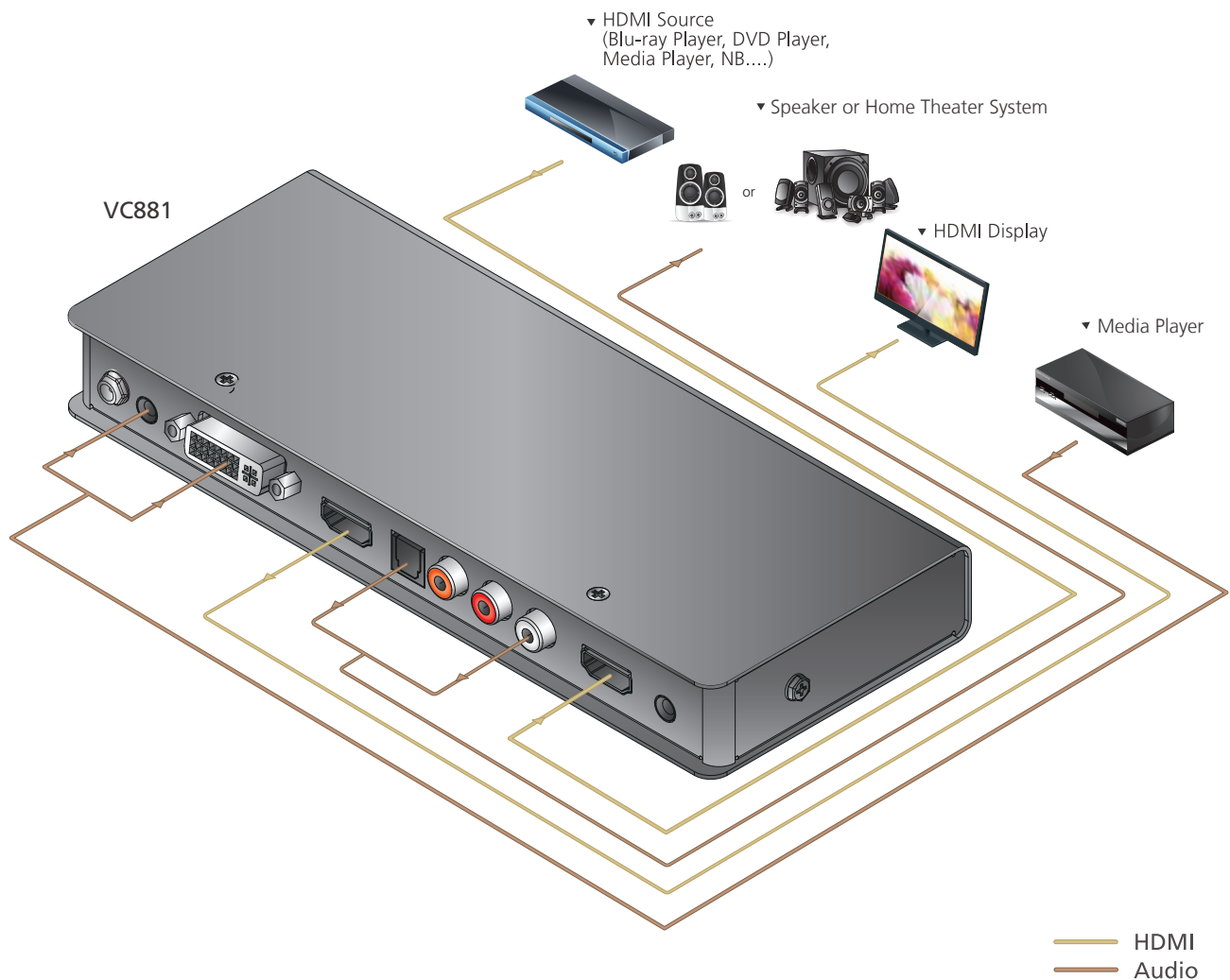


Rear

### Features

- Easy mode selection via a pushbutton
  - HDMI to HDMI
  - DVI to HDMI
  - Audio Return Channel (ARC)
- HDMI 1.4 (3D, Deep Color, 4K); HDCP 1.4 compliant
- Superior video quality:
  - HDMI: up to 4K (3840 x 2160 @30Hz)
  - DVI: up to 1920 x 1200
- HDMI audio stream can be extracted and converts it to S/PDIF, Coaxial, or a RCA Stereo Audio signal
- LED indication of power status
- Firmware upgradable
- All metal casing

### Setup > VC881



## Specifications

| Function                    | VC881                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                                                                            |
| Interfaces                  | 1 x HDMI Type A Female (Black); 1 x DVI-D Female (White)                                                                                                                                                                   |
| Impedance                   | 100 $\Omega$                                                                                                                                                                                                               |
| Max. Distance               | HDMI: 3m; DVI: 1.8m                                                                                                                                                                                                        |
| <b>Video Output</b>         |                                                                                                                                                                                                                            |
| Interfaces                  | 1 x HDMI Type A Female (Black) with ARC                                                                                                                                                                                    |
| Impedance                   | 100 $\Omega$                                                                                                                                                                                                               |
| Max. Distance               | 3m                                                                                                                                                                                                                         |
| <b>Video</b>                |                                                                                                                                                                                                                            |
| Max. Data Rate              | 10.2 Gps (3.4 Gbps Per Lane)                                                                                                                                                                                               |
| Max. Pixel Clock            | 340 MHz                                                                                                                                                                                                                    |
| Compliance                  | HDMI 1.4 (3D, Deep Color); HDCP 1.4 Compatible                                                                                                                                                                             |
| Max. Resolution             | HDMI 3840 X 2160@30Hz<br>DVI 1920 x 1200                                                                                                                                                                                   |
| <b>Audio</b>                |                                                                                                                                                                                                                            |
| Input                       | Stereo Audio: 1 x 3.5mm Jack (Green)                                                                                                                                                                                       |
| Output                      | Optical Audio: 1 x Toslink (Black); Coaxial Audio: 1 x RCA Female (Orange)<br>Stereo Audio: 2 x RCA Female (White / Red)                                                                                                   |
| <b>Switches</b>             |                                                                                                                                                                                                                            |
| Mode Selection              | Side Switch x 1 (HDMI Audio Out - ON/OFF)<br>Side Switch x 1 (Audio Out Channel - AUTO/CH 5.1/CH 2)<br>Push Button x 1 (Audio Function Selection):<br>1. HDMI to HDMI<br>2. DVI to HDMI<br>3. ARC ( Audio Return Channel ) |
| <b>Connectors</b>           |                                                                                                                                                                                                                            |
| Power                       | 1 x DC Jack, 5V, Lockable                                                                                                                                                                                                  |
| Firmware Upgrade            | 1 x 3.5mm jack (FW upgrade)                                                                                                                                                                                                |
| Power Consumption           | DC5V: 1.77W                                                                                                                                                                                                                |
| <b>Environmental</b>        |                                                                                                                                                                                                                            |
| Operating Temperature       | 0 - 40 °C                                                                                                                                                                                                                  |
| Storage Temperature         | -20 - 60 °C                                                                                                                                                                                                                |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                 |
| <b>Physical Properties</b>  |                                                                                                                                                                                                                            |
| Housing                     | Metal                                                                                                                                                                                                                      |
| Weight                      | 0.47 kg (1.04 lb)                                                                                                                                                                                                          |
| Dimensions (L x W x H)      | 20.20 x 8.49 x 2.50 cm (7.95 x 3.34 x 0.98 in.)                                                                                                                                                                            |
| <b>Carton Lot</b>           | 20 pcs                                                                                                                                                                                                                     |
| <b>Included Accessories</b> | 1x Power Adapter                                                                                                                                                                                                           |

## VC880 HDMI Repeater Plus Audio De-embedder **PRO**



A/V In  
HDMI



A/V Out  
HDMI

**5.1 Channel**



Audio Out  
Toslink



Audio Out  
RCA



Audio out  
Stereo

Front



Rear



### Features

- Repeats HDMI input signals and extracts HDMI audio signals as an additional audio source
- HDMI audio can be switched on/off via switch
- Audio channel selection via switch with options of CH 2, CH 5.1 and Auto
- Firmware upgradable

### Specifications

| Function                    | VC880                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                 |
| Impedance                   | 100 $\Omega$                                                                                   |
| <b>Video Output</b>         |                                                                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                 |
| Impedance                   | 100 $\Omega$                                                                                   |
| <b>Video</b>                |                                                                                                |
| Max. Data Rate              | 6.75 Gps (2.25 Gbps Per Lane)                                                                  |
| Max. Pixel Clock            | 225 MHz                                                                                        |
| Compliance                  | HDMI (3D, Deep Color)<br>HDCP 1.4 Compatible                                                   |
| Max. Resolution             | Up to 1920 x 1080                                                                              |
| <b>Audio</b>                |                                                                                                |
| Output                      | 1 x HDMI Type A Female (Black); 1 x Toslink (Black);<br>1 x RCA (Orange); 2 x RCA (Red/White); |
| <b>Connectors</b>           |                                                                                                |
| Power                       | 1 x DC Jack                                                                                    |
| <b>Power Consumption</b>    | DC5.3V: 2.25W                                                                                  |
| <b>Environmental</b>        |                                                                                                |
| Operating Temperature       | 0 - 50 °C                                                                                      |
| Storage Temperature         | -20 - 60 °C                                                                                    |
| Humidity                    | 0 - 80% RH, Non-Condensing                                                                     |
| <b>Physical Properties</b>  |                                                                                                |
| Housing                     | Metal                                                                                          |
| Weight                      | 0.46 kg ( 1.01 lb )                                                                            |
| Dimensions (L x W x H)      | 20.00 x 8.20 x 2.50 cm (7.87 x 3.23 x 0.98 in.)                                                |
| <b>Carton Lot</b>           | 20 pcs                                                                                         |
| <b>Included Accessories</b> | 1x Power Adapter                                                                               |

## VC1280 2-Port 4K HDMI/VGA to HDMI Converter Switch



Front



Rear



### Features

- Converts VGA input signals to a HDMI output
- Easy mode selection via a pushbutton
  - HDMI to HDMI
  - VGA to HDMI
- Superior video quality:
  - HDMI: up to 4K (3840 x 2160 @30Hz)
  - VGA: 1600 x 1200 and 1920 x 1200
- **Auto Switch** - Automatically switches to a newly plugged-in source
- HDMI 1.4 (3D, Deep color, 4K); HDCP 1.4 compliant
- Firmware upgrade via RS-232 Channel

### Specifications

| Function                               | VC1280                                                                                                               |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                     |                                                                                                                      |
| Interfaces                             | 1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)                                                       |
| Impedance                              | HDMI: 100 $\Omega$ ; HDB-15 (VGA): 75 $\Omega$                                                                       |
| Max. Distance                          | HDMI: 3m; VGA: 1.8m                                                                                                  |
| <b>Video</b>                           |                                                                                                                      |
| Max. Data Rate                         | 10.2Gbps (3.4Gbps per lane)                                                                                          |
| Max. Pixel Clock                       | 340 MHz                                                                                                              |
| Compliance                             | HDMI (3D, Deep Color, 4K); HDCP Compatible; Consumer Electronics Control (CEC)                                       |
| Max. Resolutions / Distance            | Video Input                                                                                                          |
|                                        | HDMI (3840 x 2160 @30Hz): 3m<br>VGA (1920 x 1200): 1.8m                                                              |
|                                        | Video Output                                                                                                         |
|                                        | HDMI (3840 x 2160 @30Hz) : 3m                                                                                        |
| <b>Audio</b>                           |                                                                                                                      |
| Input                                  | 1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)                                                  |
| <b>Connectors</b>                      |                                                                                                                      |
| Unit To Unit                           | 1 x RJ-45 Female                                                                                                     |
| Power                                  | 1 x DC Jack (Black) with locking                                                                                     |
| <b>Control</b>                         |                                                                                                                      |
| RS-232                                 | Connector: 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits: 8,<br>Stop Bits: 1, no parity and flow control |
| IR                                     | 1 x Mini Stereo Jack Female (Black)                                                                                  |
| <b>Switches</b>                        |                                                                                                                      |
| Video Input Port Selection             | 1 x Push Button - HDMI, VGA and AUTO                                                                                 |
| Firmware Upgrade                       | RS-232                                                                                                               |
| <b>Power Consumption</b>               |                                                                                                                      |
| Environmental                          | DC5V: 3W                                                                                                             |
| Operating Temperature                  | 0 - 40°C                                                                                                             |
| Storage Temperature                    | -20 - 60°C                                                                                                           |
| Humidity                               | 0 - 80% RH, Non-Condensing                                                                                           |
| <b>Physical Properties</b>             |                                                                                                                      |
| Housing                                | Metal                                                                                                                |
| Weight                                 | 0.47 kg (1.04 lb)                                                                                                    |
| Dimensions (L x W x H) with bracket    | 14.32 x 12.30 x 3.00 cm (5.64 x 4.84 x 1.18 in.)                                                                     |
| Dimensions (L x W x H) without bracket | 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)                                                                     |
| <b>Carton Lot</b>                      | 5 pcs                                                                                                                |
| <b>Included Accessories</b>            | 1x Power adapter                                                                                                     |

## VC840 HDMI to 3G-SDI/Audio Converter



Front



Rear



### Features

- Converts HDMI input signals to a 3G/HD/SD-SDI output
- Automatic detection of input video signals
- Offers 2 low-jitter SDI outputs for dual display
- Supports 8 audio channels @48 KHz rate
- Re-clocking SDI signals for cascading and thus longer transmission
- Power connector lock for secure communications
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens

### Specifications

| Function                                                                                                                                 | VC840                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>                                                                                                                       |                                                                                                                        |
| Interfaces                                                                                                                               | 1 x HDMI Type A Female (Black)                                                                                         |
| Impedance                                                                                                                                | 100 $\Omega$                                                                                                           |
| <b>Video Output</b>                                                                                                                      |                                                                                                                        |
| Interfaces                                                                                                                               | 2 x BNC (Gold)                                                                                                         |
| Impedance                                                                                                                                | 75 $\Omega$                                                                                                            |
| <b>Video</b>                                                                                                                             |                                                                                                                        |
| Max. Data Rate                                                                                                                           | 2.97 Gbps                                                                                                              |
| Max. Pixel Clock                                                                                                                         | 148.5 MHz                                                                                                              |
| Supported Resolutions                                                                                                                    | NTSC@59.96Hz, PAL@50 Hz;<br>720p@50/59.94/60 Hz;<br>1080i@50/59.94/60 Hz;<br>1080p@23.97/24/25/29.97/30/50/59.94/60 Hz |
| Max. Distance                                                                                                                            | 90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)                                                                             |
| <b>Audio</b>                                                                                                                             |                                                                                                                        |
| Output                                                                                                                                   | Analog: 2 x RCA (Red/White)<br>Digital: 1 x RCA (Yellow)                                                               |
| <b>SDI Formats</b>                                                                                                                       |                                                                                                                        |
| SD-SDI (SMPTE 259M, up to 270 Mbps)<br>HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps)<br>3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps) |                                                                                                                        |
| <b>EDID Settings</b>                                                                                                                     | EDID Mode: Learn                                                                                                       |
| <b>Connectors</b>                                                                                                                        |                                                                                                                        |
| Power                                                                                                                                    | 1 x DC Jack                                                                                                            |
| <b>Power Consumption</b>                                                                                                                 | DC5V: 3.23W                                                                                                            |
| <b>Environmental</b>                                                                                                                     |                                                                                                                        |
| Operating Temperature                                                                                                                    | 0 - 40 °C                                                                                                              |
| Storage Temperature                                                                                                                      | -20 - 60 °C                                                                                                            |
| Humidity                                                                                                                                 | 20 - 90% RH, Non-Condensing                                                                                            |
| <b>Physical Properties</b>                                                                                                               |                                                                                                                        |
| Housing                                                                                                                                  | Metal                                                                                                                  |
| Weight                                                                                                                                   | 0.29 kg ( 0.64 lb )                                                                                                    |
| Dimensions (L x W x H)                                                                                                                   | 12.20 x 10.70 x 3.04 cm (4.8 x 4.21 x 1.2 in.)                                                                         |
| <b>Carton Lot</b>                                                                                                                        | 5 pcs                                                                                                                  |
| <b>Included Accessories</b>                                                                                                              | 1x Power Adapter                                                                                                       |

## VC812 HDMI to VGA/Audio Converter with Scaler **PRO**



### Features

- Converts HDMI input signals to a VGA output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- **Scaler** – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- **Integrated superior video noise reduction**
- **Integrated Next Generation Color Engine** – automatic picture quality / color adjustment and enhancement
- **Built-in OSD Function** – for video and system configurations via pushbuttons
- **De-interlace Function** – for smooth video playback quality

\*The VC812 does not support HDCP

### Specifications

| Function                    | VC812                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                  |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                   |
| Impedance                   | 100 $\Omega$                                                                                                                                                     |
| <b>Video Output</b>         |                                                                                                                                                                  |
| Interfaces                  | 1 x HDB-15 Female (Black)                                                                                                                                        |
| Impedance                   | 75 $\Omega$                                                                                                                                                      |
| <b>Video</b>                |                                                                                                                                                                  |
| Max. Pixel Clock            | 165 MHz                                                                                                                                                          |
| Max. Resolution             | Up to 1920 x 1200                                                                                                                                                |
| Supported Resolutions       | 480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200 |
| <b>Audio</b>                |                                                                                                                                                                  |
| Output                      | Analog: 1 x Mini Stereo Jack Female (Black)<br>Digital: 1 x RCA (Yellow)                                                                                         |
| <b>Connectors</b>           |                                                                                                                                                                  |
| Power                       | 1 x DC Jack                                                                                                                                                      |
| <b>Power Consumption</b>    | DC5V: 2.13W                                                                                                                                                      |
| <b>Environmental</b>        |                                                                                                                                                                  |
| Operating Temperature       | 0 - 40 °C                                                                                                                                                        |
| Storage Temperature         | -20 - 60 °C                                                                                                                                                      |
| Humidity                    | 20 - 90% RH, Non-Condensing                                                                                                                                      |
| <b>Physical Properties</b>  |                                                                                                                                                                  |
| Housing                     | Metal                                                                                                                                                            |
| Weight                      | 0.29 kg ( 0.64 lb )                                                                                                                                              |
| Dimensions (L x W x H)      | 11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)                                                                                                                   |
| <b>Carton Lot</b>           | 5 pcs                                                                                                                                                            |
| <b>Included Accessories</b> | 1x Power Adapter; 1x Software CD                                                                                                                                 |

# VC810 HDMI to VGA Adapter



Front



Rear



## Features

- Converts HDMI input signals to a VGA output
- Compact and portable size

## Specifications

| Function                   | VC810                                          |
|----------------------------|------------------------------------------------|
| <b>Video Input</b>         |                                                |
| Interfaces                 | 1 x HDMI Type A Male (Black)                   |
| Impedance                  | 100 Ω                                          |
| <b>Video Output</b>        |                                                |
| Interfaces                 | 1 x HDB-15 Female (Black)                      |
| Impedance                  | 75 Ω                                           |
| <b>Video</b>               |                                                |
| Max. Pixel Clock           | 200 MHz                                        |
| Max. Resolution            | Up to 1920 x 1200                              |
| <b>Power Consumption</b>   | DC5.3V: 0.25W                                  |
| <b>Environmental</b>       |                                                |
| Operating Temperature      | 0 - 60 °C                                      |
| Storage Temperature        | -10 - 70 °C                                    |
| Humidity                   | 40 - 85% RH, Non-Condensing                    |
| <b>Physical Properties</b> |                                                |
| Housing                    | Plastic                                        |
| Weight                     | 0.01 kg ( 0.02 lb )                            |
| Dimensions (L x W x H)     | 4.55 x 2.30 x 1.48 cm (1.79 x 0.91 x 0.58 in.) |
| <b>Carton Lot</b>          | 40 pcs                                         |



## VC480 3G-SDI to HDMI/Audio Converter



### Features

- Converts 3G/HD/SD-SDI input signals to an HDMI output
- Automatic detection of input video signals
- Buffered loop-through output provides extended monitoring
- Re-clocking SDI signals for cascading thus longer transmission
- Power connector lock for secure communications
- Supports 8 audio channels @48 KHz rate

### Specifications

| Function                    | VC480                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                          |
| Interfaces                  | 1 x BNC (Gold)                                                                                                                           |
| Impedance                   | 75 $\Omega$                                                                                                                              |
| <b>Video Output</b>         |                                                                                                                                          |
| Interfaces                  | 1 x HDMI Type A Female (Black); 1 x BNC (Gold)                                                                                           |
| Impedance                   | 100 $\Omega$                                                                                                                             |
| <b>Video</b>                |                                                                                                                                          |
| Max. Data Rate              | 2.97 Gbps                                                                                                                                |
| Max. Pixel Clock            | 148.5 MHz                                                                                                                                |
| Supported Resolutions       | NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz                            |
| Max. Distance               | 90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)                                                                                               |
| <b>Audio</b>                |                                                                                                                                          |
| Output                      | Analog: 2 x RCA (Red/White)<br>Digital: 1 x RCA (Yellow)                                                                                 |
| <b>SDI Formats</b>          |                                                                                                                                          |
|                             | SD-SDI (SMPTE 259M, up to 270 Mbps)<br>HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps)<br>3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps) |
| <b>Connectors</b>           |                                                                                                                                          |
| Power                       | 1 x DC Jack                                                                                                                              |
| <b>Power Consumption</b>    |                                                                                                                                          |
|                             | DC5V: 3.64W                                                                                                                              |
| <b>Environmental</b>        |                                                                                                                                          |
| Operating Temperature       | 0 - 40 $^{\circ}\text{C}$                                                                                                                |
| Storage Temperature         | -20 - 60 $^{\circ}\text{C}$                                                                                                              |
| Humidity                    | 20 - 90% RH, Non-Condensing                                                                                                              |
| <b>Physical Properties</b>  |                                                                                                                                          |
| Housing                     | Metal                                                                                                                                    |
| Weight                      | 0.29 kg ( 0.64 lb )                                                                                                                      |
| Dimensions (L x W x H)      | 12.30 x 10.87 x 3.05 cm (4.84 x 4.28 x 1.2 in.)                                                                                          |
| <b>Carton Lot</b>           |                                                                                                                                          |
|                             | 5 pcs                                                                                                                                    |
| <b>Included Accessories</b> |                                                                                                                                          |
|                             | 1x Power Adapter                                                                                                                         |

## VC182 VGA/Audio to HDMI Converter with Scaler



### Features

- Converts VGA input signals to an HDMI output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- **Scaler** – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- **Integrated superior video noise reduction**
- **De-interlace Function** – for smooth video playback quality
- **Built-in OSD Function** – for video and system configurations
- **Integrated Next Generation Color Engine** – automatic picture quality / color adjustment and enhancement

### Specifications

| Function                    | VC182                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                                                                                                                  |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                                                                                                                         |
| Impedance                   | 75 $\Omega$                                                                                                                                                      |
| <b>Video Output</b>         |                                                                                                                                                                  |
| Interfaces                  | 1 x HDMI Type A Female (Black)                                                                                                                                   |
| Impedance                   | 100 $\Omega$                                                                                                                                                     |
| <b>Video</b>                |                                                                                                                                                                  |
| Max. Pixel Clock            | 165 MHz                                                                                                                                                          |
| Max. Resolution             | Up to 1080p                                                                                                                                                      |
| Scaler Resolutions          | 480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200 |
| <b>Audio</b>                |                                                                                                                                                                  |
| Input                       | Analog: 1 x Mini Stereo Jack Female (Black)<br>Digital: 1 x RCA (Yellow)                                                                                         |
| <b>Connectors</b>           |                                                                                                                                                                  |
| Power                       | 1 x DC Jack                                                                                                                                                      |
| <b>Power Consumption</b>    |                                                                                                                                                                  |
|                             | DC5V: 1.56W                                                                                                                                                      |
| <b>Environmental</b>        |                                                                                                                                                                  |
| Operating Temperature       | 0 - 40 °C                                                                                                                                                        |
| Storage Temperature         | -20 - 60 °C                                                                                                                                                      |
| Humidity                    | 20 - 90% RH, Non-Condensing                                                                                                                                      |
| <b>Physical Properties</b>  |                                                                                                                                                                  |
| Housing                     | Metal                                                                                                                                                            |
| Weight                      | 0.31 kg ( 0.68 lb )                                                                                                                                              |
| Dimensions (L x W x H)      | 11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)                                                                                                                   |
| <b>Carton Lot</b>           |                                                                                                                                                                  |
|                             | 5 pcs                                                                                                                                                            |
| <b>Included Accessories</b> |                                                                                                                                                                  |
|                             | 1x Power Adapter; 1x Software CD                                                                                                                                 |

## VC180 VGA/Audio to HDMI Converter



Front



Rear



### Features

- Converts VGA input signals to an HDMI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- Compact design and light-weighted
- [Screen Position Button](#) – saves screen position settings for each output resolution

### Specifications

| Function                    | VC180                                          |
|-----------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                |
| Interfaces                  | 1 x HDB-15 Female (Blue)                       |
| Impedance                   | 75 $\Omega$                                    |
| <b>Video Output</b>         |                                                |
| Interfaces                  | 1 x HDMI Type A Female (Black)                 |
| Impedance                   | 100 $\Omega$                                   |
| <b>Video</b>                |                                                |
| Max. Pixel Clock            | 165 MHz                                        |
| Max. Resolution             | Up to 1080p                                    |
| <b>Audio</b>                |                                                |
| Input                       | 1 x Mini Stereo Jack Female (Green)            |
| <b>Connectors</b>           |                                                |
| Power                       | 1 x DC Jack                                    |
| <b>Power Consumption</b>    | DC5V: 2.62W                                    |
| <b>Environmental</b>        |                                                |
| Operating Temperature       | 0 - 50 °C                                      |
| Storage Temperature         | -20 - 60 °C                                    |
| Humidity                    | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                |
| Housing                     | Metal                                          |
| Weight                      | 0.15 kg ( 0.33 lb )                            |
| Dimensions (L x W x H)      | 7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.) |
| <b>Carton Lot</b>           | 20 pcs                                         |
| <b>Included Accessories</b> | 1x Power Adapter                               |

# VC160A    VGA to DVI Converter

Video In  
HDB-15

Video Out  
DVI

Smart Video  
Display

Screen  
Position  
Tuner

EDID



Front



## Features

- Converts VGA input signals to a DVI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- [Screen Position Button](#) – saves screen position settings for each output resolution

## Specifications

| Function                    | VC160A                                         |
|-----------------------------|------------------------------------------------|
| <b>Video Input</b>          |                                                |
| Interfaces                  | 1 x HDB-15 Female (Blue)                       |
| Impedance                   | 75 Ω                                           |
| <b>Video Output</b>         |                                                |
| Interfaces                  | 1 x DVI-D Female (White)                       |
| Impedance                   | 100 Ω                                          |
| <b>Video</b>                |                                                |
| Max. Pixel Clock            | 165 MHz                                        |
| Max. Resolution             | Up to 1920 x 1200                              |
| <b>Connectors</b>           |                                                |
| Power                       | 1 x DC Jack                                    |
| <b>Power Consumption</b>    |                                                |
|                             | DC5V: 1.64W                                    |
| <b>Environmental</b>        |                                                |
| Operating Temperature       | 0 - 50 °C                                      |
| Storage Temperature         | -20 - 60 °C                                    |
| Humidity                    | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b>  |                                                |
| Housing                     | Metal                                          |
| Weight                      | 0.15 kg ( 0.33 lb )                            |
| Dimensions (L x W x H)      | 7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.) |
| <b>Carton Lot</b>           |                                                |
|                             | 20 pcs                                         |
| <b>Included Accessories</b> |                                                |
|                             | 1x Power Adapter                               |

## VC981 / VC986 Mini DisplayPort / DisplayPort to 4K HDMI Active Adapter



VC981



VC986



### Features

- Supports VGA, SVGA, XGA, SXGA, UXGA, 1080p and resolutions up to 4K UHD
- Active adapter – features an advanced chip which ensures stable video signal conversion even when the video source does not support dual-mode DisplayPort (DP++)\*
- Supports Eyefinity (multi-screen setups)
- Audio supported
- No software or driver installation required
- DisplayPort 1.2a compliant

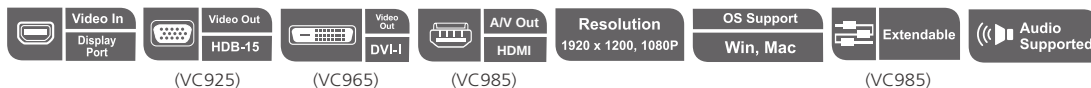
Note: \*Dual-mode DisplayPort (DP++) can directly process the signal from DisplayPort to HDMI or DVI signals. Devices supporting DP++ will display this logo.



### Specifications

| Function                   | VC981                                           | VC986                                           |
|----------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>Video Input</b>         |                                                 |                                                 |
| Interfaces                 | 1 Mini DisplayPort Male (White)                 | 1 x DisplayPort Male (White)                    |
| <b>Video Output</b>        |                                                 |                                                 |
| Interfaces                 | 1 x HDMI Type A Female (Black)                  | 1 x HDMI Type A Female (Black)                  |
| <b>Video</b>               |                                                 |                                                 |
| Max. Pixel Clock           | 297 MHz                                         | 297 MHz                                         |
| Max. Resolution            | 3840 x 2160@30Hz, 1920 x 1200@60Hz.             | 3840x2160@30Hz, 1920 x 1200@60Hz.               |
| Compliance                 | DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3     | DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3     |
| <b>Audio</b>               |                                                 |                                                 |
| Output                     | 1 x HDMI Type A Female (Black)                  | 1 x HDMI Type A Female (Black)                  |
| <b>Power Consumption</b>   | DC3.3V: 0.25W                                   | DC3.3V: 0.25W                                   |
| <b>Environmental</b>       |                                                 |                                                 |
| Operating Temperature      | 0 - 50 °C                                       | 0 - 50 °C                                       |
| Storage Temperature        | -20 – 60 °C                                     | -20 – 60 °C                                     |
| Humidity                   | 0 - 80% RH, Non-Condensing                      | 0 - 80% RH, Non-Condensing                      |
| <b>Physical Properties</b> |                                                 |                                                 |
| Housing                    | Plastic                                         | Plastic                                         |
| Weight                     | 0.04 kg ( 0.09 lb )                             | 0.04 kg ( 0.09 lb )                             |
| Dimensions (L x W x H)     | 17.50 x 4.50 x 1.50 cm (6.89 x 1.77 x 0.59 in.) | 18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.) |
| <b>Carton Lot</b>          | 40 pcs                                          | 40 pcs                                          |

**VC925** DisplayPort to VGA Adapter  
**VC965** DisplayPort to DVI Adapter  
**VC985** DisplayPort to HDMI Adapter



VC925



VC965



VC985



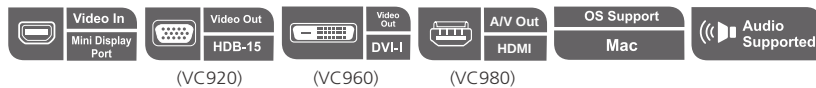
## Features

- Supports VGA, SVGA, XGA, SXGA, UXGA and resolutions up to 1920x1200 (PC) / 1080p (HDTV)
- Audio Supported (VC985 Only)
- No software or driver installation required
- DisplayPort 1.2a compliant

## Specifications

| Function                   | VC925                                              | VC965                                                                   | VC985                                              |
|----------------------------|----------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------|
| <b>Video Input</b>         |                                                    |                                                                         |                                                    |
| Interfaces                 | 1 x DisplayPort Male (White)                       | 1 x DisplayPort Male (White)                                            | 1 x DisplayPort Male (White)                       |
| <b>Video Output</b>        |                                                    |                                                                         |                                                    |
| Interfaces                 | 1 x HDB-15 Female (Blue)                           | 1 x DVI-I* Female (White)<br>*Only support digital signal transmission. | 1 x HDMI Type A Female (Black)                     |
| <b>Video</b>               |                                                    |                                                                         |                                                    |
| Max. Pixel Clock           | 165 MHz                                            | 165 MHz                                                                 | 165MHz                                             |
| Max. Resolution            | 1920x1200@60Hz(PC)/<br>1080p(HDTV)                 | 1920 x 1080@60HZ                                                        | 1920 x 1080@60HZ                                   |
| Compliance                 | DP 1.2a                                            | DP 1.2a, DVI 1.1                                                        | DP 1.2a, HDMI 1.3                                  |
| <b>Audio</b>               |                                                    |                                                                         |                                                    |
| Output                     | N/A                                                | N/A                                                                     | 1 x HDMI Type A Female (Black)                     |
| <b>Power Consumption</b>   | DC3.3V: 0.25W                                      | DC3.3V: 0.25W                                                           | DC3.3V: 0.25W                                      |
| <b>Environmental</b>       |                                                    |                                                                         |                                                    |
| Operating Temperature      | 0 - 50 °C                                          | 0 - 50 °C                                                               | 0 - 50 °C                                          |
| Storage Temperature        | -20 - 60 °C                                        | -20 - 60°C                                                              | -20 - 60 °C                                        |
| Humidity                   | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                                              | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b> |                                                    |                                                                         |                                                    |
| Housing                    | Plastic                                            | Plastic                                                                 | Plastic                                            |
| Weight                     | 0.04 kg ( 0.1 lb )                                 | 0.04 kg ( 0.11 lb )                                                     | 0.04 kg ( 0.09 lb )                                |
| Dimensions (L x W x H)     | 18.00 x 4.50 x 1.50 cm<br>(7.09 x 1.77 x 0.59 in.) | 18.00 x 4.50 x 1.50 cm<br>(7.09 x 1.77 x 0.59 in.)                      | 18.00 x 4.50 x 1.50 cm<br>(7.09 x 1.77 x 0.59 in.) |
| <b>Carton Lot</b>          | 40 pcs                                             | 40 pcs                                                                  | 40 pcs                                             |

**VC920** Mini DisplayPort to VGA Adapter  
**VC960** Mini DisplayPort to DVI Adapter  
**VC980** Mini DisplayPort to HDMI Adapter



VC920



VC960



VC980



## Features

- Converts mini DisplayPort input signals to a VGA / DVI / HDMI output
- Supported devices: MacBook, MacBook Pro, MacBook Air, Mac mini and Mac Pro
- Audio enabled (VC980)

## Specifications

| Function                   | VC920                                              | VC960                                                                          | VC980                                              |
|----------------------------|----------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Video Input</b>         |                                                    |                                                                                |                                                    |
| Interfaces                 | 1 x Mini DisplayPort Male (White)                  | 1 x Mini DisplayPort Male (White)                                              | 1 x Mini DisplayPort Male (White)                  |
| <b>Video Output</b>        |                                                    |                                                                                |                                                    |
| Interfaces                 | 1 x HDB-15 Female (Blue)                           | 1 x DVI-I Female (White)*<br>*VC960 Only supports digital signal transmission. | 1 x HDMI Type A Female (Black)                     |
| <b>Video</b>               |                                                    |                                                                                |                                                    |
| Max. Pixel Clock           | 165 MHz                                            | 165 MHz                                                                        | 165 MHz                                            |
| Max. Resolution            | Up to 1920 x 1200                                  | Up to 1920 x 1200                                                              | Up to 1920 x 1200                                  |
| Compliance                 | DP 1.2a                                            | DP 1.2a, DVI 1.1                                                               | DP 1.2a, HDMI 1.3                                  |
| <b>Audio</b>               |                                                    |                                                                                |                                                    |
| Output                     | N/A                                                | N/A                                                                            | 1 x HDMI Type A Female Black                       |
| <b>Power Consumption</b>   |                                                    |                                                                                |                                                    |
|                            | DC3.3V: 0.25W                                      | DC3.3V: 0.25W                                                                  | DC3.3V: 0.25W                                      |
| <b>Environmental</b>       |                                                    |                                                                                |                                                    |
| Operating Temperature      | 0 - 50 °C                                          | 0 - 50 °C                                                                      | 0 - 50 °C                                          |
| Storage Temperature        | -20 - 60 °C                                        | -20 - 60 °C                                                                    | -20 - 60 °C                                        |
| Humidity                   | 0 - 80% RH, Non-Condensing                         | 0 - 80% RH, Non-Condensing                                                     | 0 - 80% RH, Non-Condensing                         |
| <b>Physical Properties</b> |                                                    |                                                                                |                                                    |
| Housing                    | Plastic                                            | Plastic                                                                        | Plastic                                            |
| Weight                     | 0.04 kg ( 0.09 lb )                                | 0.05 kg ( 0.11 lb )                                                            | 0.03 kg ( 0.07 lb )                                |
| Dimensions (L x W x H)     | 20.00 x 4.30 x 2.01 cm<br>(7.87 x 1.69 x 0.79 in.) | 20.00 x 4.30 x 2.01 cm<br>(7.87 x 1.69 x 0.79 in.)                             | 19.00 x 2.10 x 1.11 cm<br>(7.48 x 0.83 x 0.44 in.) |
| <b>Carton Lot</b>          |                                                    |                                                                                |                                                    |
|                            | 40 pcs                                             | 40 pcs                                                                         | 40 pcs                                             |



# VC081 HDMI EDID Emulator



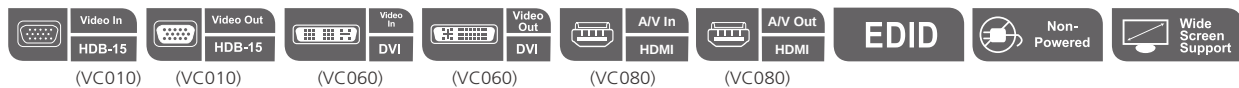
## Features

- Manages EDID communication between connected devices
- Effectively learn the EDID from HDMI display and relay it to video source
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compliant
- Superior video quality – up to True 4K (3840 x 2160 @ 60Hz 4:4:4)
- LED indicators to show device status
- Powered by HDMI source
- Compact and lightweight design

## Specifications

| Function                   | VC081                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------|
| <b>Video Input</b>         |                                                                                       |
| Interfaces                 | 1 x HDMI Type A Male (Black)                                                          |
| Impedance                  | 100 $\Omega$                                                                          |
| <b>Video Output</b>        |                                                                                       |
| Interfaces                 | 1 x HDMI Type A Female (Black)                                                        |
| Impedance                  | 100 $\Omega$                                                                          |
| <b>Video</b>               |                                                                                       |
| Compliance                 | HDMI 2.0 (3D, Deep Color)<br>HDCP 2.2 Compatible<br>Consumer Electronic Control (CEC) |
| <b>EDID Settings</b>       | <b>EDID Mode:</b> Default / Learning                                                  |
| <b>Connectors</b>          |                                                                                       |
| Power                      | Bus-powered (5 VDC from source device)                                                |
| <b>LEDs</b>                |                                                                                       |
| Power                      | Power status (Green x 1)                                                              |
| Status                     | Learning (Blue x 1)                                                                   |
| <b>Power Consumption</b>   | DC5V: 0.25W                                                                           |
| <b>Environmental</b>       |                                                                                       |
| Operating Temperature      | 0 - 50 $^{\circ}\text{C}$                                                             |
| Storage Temperature        | -20 - 60 $^{\circ}\text{C}$                                                           |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                            |
| <b>Physical Properties</b> |                                                                                       |
| Housing                    | Plastic (ABS)                                                                         |
| Weight                     | 0.1 kg (0.22 lb)                                                                      |
| Dimensions (L x W x H)     | 4.40 x 1.18 x 2.40 cm (1.73 x 0.46 x 0.94 in.)                                        |
| <b>Carton Lot</b>          | 40 pcs                                                                                |

**VC010** VGA EDID Emulator  
**VC060** DVI EDID Emulator  
**VC080** HDMI EDID Emulator



## Features

- [ATEN EDID Wizard](#) – allows users to custom configure multiple EDID settings for display via RS-232 connection
- [EDID Expert™](#) – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Hot-pluggable
- Firmware upgradable

Note: Please connect an external power cord to the video source if it is not supplied with enough power to function.

## Specifications

| Function                    | VC010                                                                | VC060                                                                | VC080                                                                             |
|-----------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Video Input</b>          |                                                                      |                                                                      |                                                                                   |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                             | 1 x DVI-I Female (White)                                             | 1 x HDMI Type A Female (Black)                                                    |
| Impedance                   | 75 $\Omega$                                                          | 100 $\Omega$                                                         | 100 $\Omega$                                                                      |
| <b>Video Output</b>         |                                                                      |                                                                      |                                                                                   |
| Interfaces                  | 1 x HDB-15 Female (Blue)                                             | 1 x DVI-I Female (White)                                             | 1 x HDMI Type A Female (Black)                                                    |
| Impedance                   | 75 $\Omega$                                                          | 100 $\Omega$                                                         | 100 $\Omega$                                                                      |
| <b>Video</b>                |                                                                      |                                                                      |                                                                                   |
| Compliance                  | N/A                                                                  | N/A                                                                  | HDMI (3D, Deep Color)<br>HDCP 1.4 Compatible<br>Consumer Electronic Control (CEC) |
| <b>Audio</b>                |                                                                      |                                                                      |                                                                                   |
| Output                      | N/A                                                                  | N/A                                                                  | 1 x HDMI Type A Female (Black)                                                    |
| <b>EDID Settings</b>        | <b>EDID Mode:</b> Default / Learn / Customized (EDID Wizard support) | <b>EDID Mode:</b> Default / Learn / Customized (EDID Wizard support) | <b>EDID Mode:</b> Default / Learn / Customized (EDID Wizard support)              |
| <b>Connectors</b>           |                                                                      |                                                                      |                                                                                   |
| Power                       | 1 x DC Jack                                                          | 1 x DC Jack                                                          | 1 x DC Jack                                                                       |
| <b>Power Consumption</b>    | DC5V: 0.11W                                                          | DC5V: 0.13W                                                          | DC5V: 0.17W                                                                       |
| <b>Environmental</b>        |                                                                      |                                                                      |                                                                                   |
| Operating Temperature       | 0 - 50 °C                                                            | 0 - 50 °C                                                            | 0 - 50 °C                                                                         |
| Storage Temperature         | -20 - 60 °C                                                          | -20 - 60°C                                                           | -20 - 60 °C                                                                       |
| Humidity                    | 0 - 80% RH, Non-Condensing                                           | 0 - 80% RH, Non-Condensing                                           | 0 - 80% RH, Non-Condensing                                                        |
| <b>Physical Properties</b>  |                                                                      |                                                                      |                                                                                   |
| Housing                     | Metal                                                                | Metal                                                                | Metal                                                                             |
| Weight                      | 0.15 kg ( 0.33 lb )                                                  | 0.15 kg ( 0.33 lb )                                                  | 0.15 kg ( 0.33 lb )                                                               |
| Dimensions (L x W x H)      | 7.90 x 7.76 x 2.45 cm<br>(3.11 x 3.06 x 0.96 in.)                    | 7.90 x 7.86 x 2.45 cm<br>(3.11 x 3.09 x 0.96 in.)                    | 7.90 x 7.76 x 2.45 cm<br>(3.11 x 3.06 x 0.96 in.)                                 |
| <b>Carton Lot</b>           | 5 pcs                                                                | 5 pcs                                                                | 5 pcs                                                                             |
| <b>Included Accessories</b> | 1x RS-232 Configuration Cable; 1x USB to DC Power Cord               |                                                                      |                                                                                   |

## 2A-130G VGA EDID Emulator



### Features

- Substitutes as a monitor at the site where the computer / video source is located
- EDID built-in – Stores ATEN standard EDID information in device
- ATEN standard EDID support all popular resolutions
- Superior video quality - up to 1920 x 1200@60Hz, 1366 x 768@60Hz
- USB Powered – No need for an external power adapter
- No software required – Eliminates incompatibility and installation issues; no need to configure

### Specifications

| Function                   | 2A-130G                                        |
|----------------------------|------------------------------------------------|
| <b>Connectors</b>          |                                                |
| Video                      | 1 x HDB-15 Male (Blue)                         |
| Power                      | 1 x USB Type A Male                            |
| <b>LEDs</b>                |                                                |
| Power                      | 1 (Green)                                      |
| <b>Video</b>               |                                                |
|                            | 1920 x 1200@60Hz<br>1366 x 768@60Hz            |
| <b>Cable Length</b>        | 0.35 m                                         |
| <b>Power Consumption</b>   | DC5V: 0.06W                                    |
| <b>Environmental</b>       |                                                |
| Operating Temperature      | 0 - 50 °C                                      |
| Storage Temperature        | -20 - 60 °C                                    |
| Humidity                   | 0 - 80% RH, Non-Condensing                     |
| <b>Physical Properties</b> |                                                |
| Housing                    | Plastic                                        |
| Weight                     | 42 g                                           |
| Dimensions (L x W x H)     | 6.59 x 3.40 x 1.60 cm (2.59 x 1.33 x 0.63 in.) |

### Compatible Splitters

| Part No. / Spec.        | Page No.   |
|-------------------------|------------|
| VS1204T, VS1208T,       | 5-11       |
| VS0102, VS0104, VS0108, | 8-13       |
| VS132A, VS134A, VS138A, | 8-14       |
| VS92A, VS94A, VS98A,    | 8-15       |
| VS82, VS84, VS88,       | 8-16       |
| VS0116, VS132, VS102,   | 8-12, 8-17 |

### Compatible Extenders

| Part No. / Spec.                                                                                                                        | Page No.                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| CE800B, CE775, CE774,<br>CE770, CE750A, CE700A,<br>CE370, CE350, CE250A,<br>VE156, VE157,<br>VE172R,<br>VE170, VE170Q,<br>VE150A, VE200 | For CE products, please<br>refer to ATEN SOHO and<br>SMB Catalog CH5.<br>9-30<br>5-13<br>9-49<br>9-48, 9-50 |



## CM1284

### 4-Port USB 4K HDMI Multi-View KVM<sup>™</sup> Switch



Front



Rear



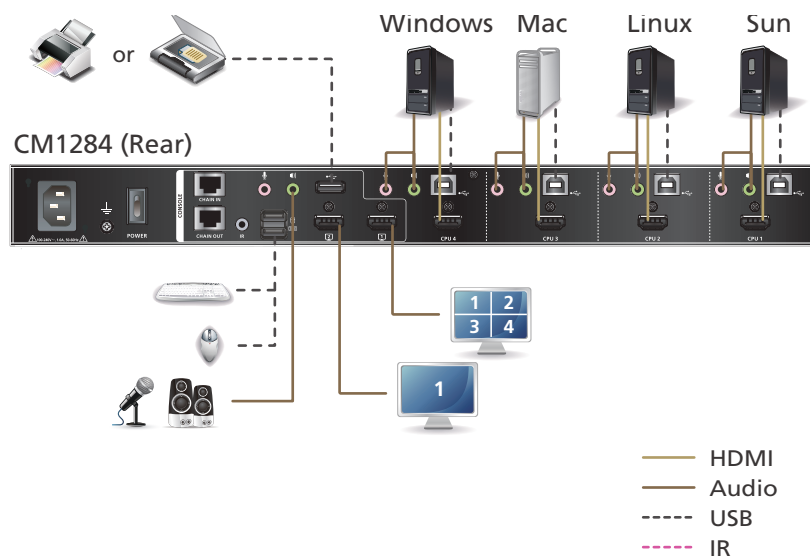
#### Features

- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- Features dual output on console side – a multi-view output and a full screen output
- Easily resizes and / or reposition any PiP or PbP to suit users' viewing needs
- System configuration via front panel, OSD, IR Remote, and RS-232 commands – display mode and port selection
- Supports superior video quality – Up to 4K (4096 x 2160 @ 30 Hz)
- Drop down menu – edit display windows and other functions with the mouse and on-screen control panel
- Computer selection via front panel pushbutton and hotkey, mouse<sup>1</sup>, and the serial commands
- [Boundless Switching](#) – Simply moves the mouse cursor across windows to switch to other video sources
- [Video DynaSync<sup>™</sup>](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- [EDID Expert<sup>™</sup>](#) – Selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- DCC (Daisy Chain Control) – Controls up to 3 additional CM1284 units from a single console
- Cascade up to 2 levels – Controls up to 16 computers (with up to 4 x 4 Multi-view mode)
- HDCP 1.4 compliant
- Console keyboard emulation / bypass feature
- Console mouse port emulation / bypass feature
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Firmware upgradable via computer's USB port
- Multilingual keyboard mapping – supports English, French, Japanese, and German keyboards
- Supports keyboard combinations via emulation (for Sun / Mac)<sup>2</sup>

Note:

1. Mouse port switching is only workable under mouse emulation mode and is for 3-key USB wheel mouse only
2. PC keyboard combinations emulate Mac keyboard. Mac keyboard only work with their own computers

#### Setup > CM1284



- **Quad View** displays all four computers / video sources on the display



- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port

## Specifications

| Function                          | CM1284                                                                                                                                                                                           |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Computer Connections</b>       | 4                                                                                                                                                                                                |
| <b>Port Selection</b>             | Pushbutton, Hotkey, IR Remote Control, On-Screen Display(OSD), RS-232 Commands                                                                                                                   |
| <b>Connectors</b>                 |                                                                                                                                                                                                  |
| Console Ports                     | 2 x USB Type A Female<br>2 x HDMI Female (Black)<br>2 x 3.5mm Audio Jack Female (Green; 1 x front panel, 1 x rear panel)<br>2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)<br>2 x RJ-45 |
| KVM (Computer) Ports              | 4 x USB Type B Female (White)<br>4 x HDMI Female (Black)<br>4 x 3.5mm Audio Jack Female (Green)<br>4 x 3.5mm Audio Jack Female (Pink)                                                            |
| Power                             | 1 x IEC320 Jack                                                                                                                                                                                  |
| USB Hub                           | 2 x USB 2.0 Type A Female (1 x front panel; 1 x rear panel)                                                                                                                                      |
| <b>Switches</b>                   |                                                                                                                                                                                                  |
| Selected                          | 11 x Pushbuttons                                                                                                                                                                                 |
| <b>Emulation</b>                  |                                                                                                                                                                                                  |
| Keyboard / Mouse                  | USB                                                                                                                                                                                              |
| <b>Video</b>                      | 4096 x 2160 @ 30Hz                                                                                                                                                                               |
| <b>LEDs</b>                       |                                                                                                                                                                                                  |
| KVM                               | 4 (Orange)                                                                                                                                                                                       |
| Audio                             | 4 (Green)                                                                                                                                                                                        |
| USB                               | 4 (Green)                                                                                                                                                                                        |
| <b>Maximum Input Power Rating</b> | 100-240 VAC; 50/60Hz; 1A                                                                                                                                                                         |
| <b>Power Consumption</b>          | AC110V: 16.0W / AC220V: 14.8W                                                                                                                                                                    |
| <b>Environmental</b>              |                                                                                                                                                                                                  |
| Operating Temperature             | 0 - 50°C                                                                                                                                                                                         |
| Storage Temperature               | -20 - 60°C                                                                                                                                                                                       |
| Humidity                          | 0-95% RH, Non-condensing                                                                                                                                                                         |
| <b>Physical Properties</b>        |                                                                                                                                                                                                  |
| Housing                           | Metal                                                                                                                                                                                            |
| Weight                            | 2.46 kg (5.42 lb)                                                                                                                                                                                |
| Dimensions (L x W x H)            | 43.72 x 16.40 x 4.40 cm (17.21 x 6.46 x 1.73 in.)                                                                                                                                                |
| <b>Carton Lot</b>                 | 3 pcs                                                                                                                                                                                            |
| <b>Included Accessories</b>       | 4x USB HDMI Cables; 1x Power Cord; 1x IR Remote Control; 1x Rack Mount Kit                                                                                                                       |

## Optional Accessories

| Type                | Part No. / Spec.  | Page No.                        |
|---------------------|-------------------|---------------------------------|
| USB HDMI KVM Cables | 2L-7D02UH (1.8 m) | Refer to ATEN Catalog<br>12-3 T |
| IR Extender Cable   | 2XRT-0003G        | Refer to ATEN Catalog<br>12-4   |

## CM1164A

### 4-Port USB DVI Multi-View KVM<sup>®</sup> Switch



Front



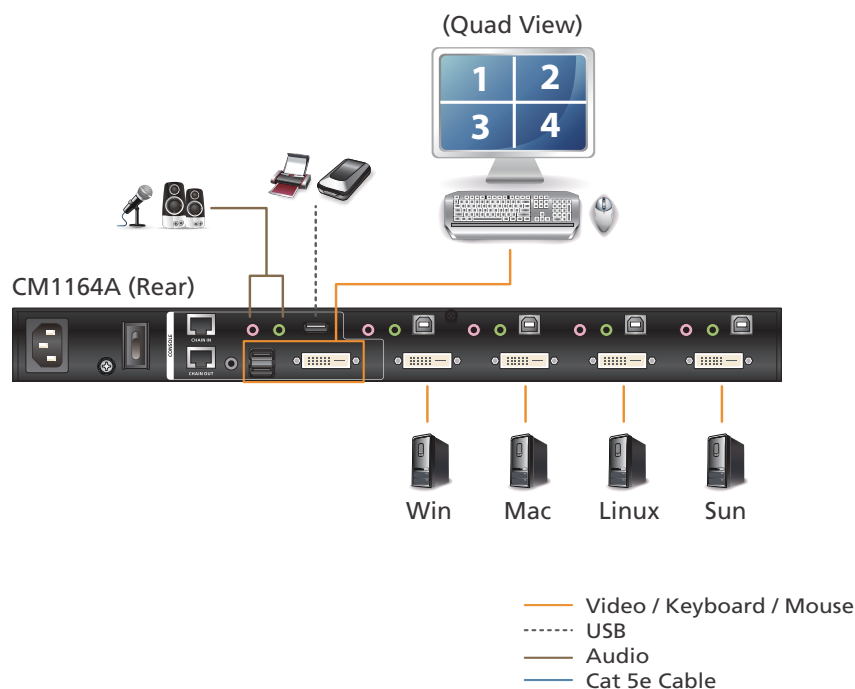
Rear



#### Features

- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- System configuration via front panel, OSD, IR Remote – display mode and port selection
- Easily resize and / or reposition any PiP or PbP to suit users' viewing needs
- DCC (Daisy Chain Control) — Controls up to 3 additional CM1164A units from a single console
- Cascade up to 2 levels — Controls up to 16 computers (with up to 4 x 4 Multi-view mode)
- [Boundless Switching](#) – Simply moves the mouse cursor across windows to switch to other video sources
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- HDCP 1.4 compliant
- Supports RS-232 commands
- Drop down menu – edit display windows and other functions with the mouse and on-screen control panel
- Console mouse port emulation / bypass feature that supports most mouse drivers and multifunction mice
- Console keyboard emulation / bypass feature that support most multimedia keyboards
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Auto Scan feature
- Power on detection
- Multilingual keyboard mapping – supports English, French, Japanese, and German keyboards
- Full bass response provides a rich experience for 2.0 channel audio
- Supports keyboard combinations via emulation (for Sun / Mac)

#### Setup > CM1164A





- **Quad View** displays all four computers / video sources on the display



- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port

## Specifications

| Function                    | CM1164A                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Computer Connections</b> | 4                                                                                                                                                                                                             |
| <b>Port Selection</b>       | Pushbuttons, Hotkeys, IR Remote Control, On-Screen Display (OSD), Mouse, RS-232 Commands                                                                                                                      |
| <b>Connectors</b>           |                                                                                                                                                                                                               |
| Console Ports               | 2 x USB Type A Female<br>1 x Single Link DVI-D Female (White)<br>2 x 3.5mm Audio Jack Female (Green; 1 x front panel, 1 x rear panel)<br>2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)<br>2 x RJ-45 |
| KVM Ports                   | 4 x USB Type B Female<br>4 x Single Link DVI-D Female (White)<br>4 x 3.5mm Audio Jack Female (Green)<br>4 x 3.5mm Audio Jack Female (Pink)                                                                    |
| Power                       | 1 x IEC320 Jack                                                                                                                                                                                               |
| USB Hub                     | 2 x USB 2.0 Type A Female                                                                                                                                                                                     |
| <b>Emulation</b>            |                                                                                                                                                                                                               |
| Keyboard / Mouse            | USB                                                                                                                                                                                                           |
| <b>Switches</b>             |                                                                                                                                                                                                               |
| Selected                    | 11 x Pushbuttons                                                                                                                                                                                              |
| <b>Video</b>                | 1920 x 1200 @ 60Hz (DVI-D)                                                                                                                                                                                    |
| <b>LEDs</b>                 |                                                                                                                                                                                                               |
| KVM                         | 4 (Orange)                                                                                                                                                                                                    |
| Audio                       | 4 (Green)                                                                                                                                                                                                     |
| USB                         | 4 (Green)                                                                                                                                                                                                     |
| <b>Power Consumption</b>    | AC110V: 9.7W / AC220V: 9.5W                                                                                                                                                                                   |
| <b>Environmental</b>        |                                                                                                                                                                                                               |
| Operating Temperature       | 0 - 40°C                                                                                                                                                                                                      |
| Storage Temperature         | -10 - 60°C                                                                                                                                                                                                    |
| Humidity                    | 0-80% RH, Non-condensing                                                                                                                                                                                      |
| <b>Physical Properties</b>  |                                                                                                                                                                                                               |
| Housing                     | Metal                                                                                                                                                                                                         |
| Weight                      | 2.46 kg (5.42 lb)                                                                                                                                                                                             |
| Dimensions (L x W x H)      | 43.72 x 16.40 x 4.40 cm (17.21 x 6.46 x 1.73 in.)                                                                                                                                                             |
| <b>Carton Lot</b>           | 3 pcs                                                                                                                                                                                                         |
| <b>Included Accessories</b> | 4x KVM Cables (DVI-D, USB, Audio); 1x Power Cord; 1x IR Remote Control; 1x Rack Mount Kit                                                                                                                     |

## Optional Accessories

| Type                           | Part No. / Spec.                                       | Page No.                        |
|--------------------------------|--------------------------------------------------------|---------------------------------|
| USB DVI Single Link KVM Cables | 2L-7D02U (1.8 m),<br>2L-7D03U (3 m),<br>2L-7D05U (5 m) | Refer to ATEN Catalog<br>12-3 O |
| IR Extender Cable              | 2XRT-0003G                                             | Refer to ATEN Catalog<br>12-4   |

## 2L-2910 305M HDBaseT SF/UTP Cat 6 Cable



The 2L-2910 is a twisted pair cable engineered for optimum signal transmission at resolutions up to 4K including digital and analogue data, audio, and video applications. The cable supports sweep frequency up to 400 MHz and has been verified to meet performance requirements set by the HDBaseT Alliance.

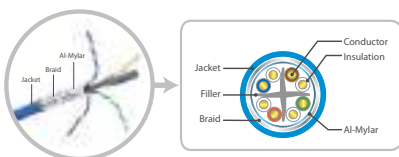
The 2L-2910 supports long distance connections while safeguarding transmission quality. The outer metal layer and the braid protect signal transmissions from electromagnetic interference and reduce the impact caused by electrical noise.

The 2L-2910 utilizes SF/UTP design with four unshielded 23 AWG twisted pair conductors. Among the four unshielded twisted pair conductors, there is one cross filler to reduce cross talk. Most importantly, the cable meets the requirements set by ANSI/TIA-568-C.2 (2009) ensuring high performance in electrical transmission.



### Features

- Optimized for multiple distributions including HD video, audio, Ethernet, power and control
- Verified to meet performance requirements set by HDBaseT Alliance
- Supports sweep frequency up to 400 MHz
- Supports up to 4K data transmission
- Conductor material: 23 AWG bare copper
- Outer shielded material: Al Mylar tape
- Braid wire: tinned copper
- Flame test UL 1685 (CM rated), RoHS compliant
- Compatible with ATEN HDBaseT extenders and splitters
- Regulatory:
  - PoE: IEEE 802.3af (PoE)/ IEEE 802.3at (PoE+)
  - Electrical Transmission: ANSI/TIA-568-C.2 (2009), ISO/IEC 11801 (Edition 2.2), IEC 61156-5 (Edition 2.1)
  - Material and Construction: UL 444, CSA 22.2 NO.214





## 2L-2910 Specifications

| Function                                   | 2L-2910                                                                                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cable Type</b>                          | Cat 6 SF/UTP                                                                                                                                                                 |
| <b>Conductor</b>                           |                                                                                                                                                                              |
| Size                                       | 23 AWG                                                                                                                                                                       |
| Construction                               | Solid Bare copper                                                                                                                                                            |
| Number of Pairs                            | 4                                                                                                                                                                            |
| <b>Insulation</b>                          |                                                                                                                                                                              |
| Material                                   | Polyolefin                                                                                                                                                                   |
| Color codes                                | Blue & White/Blue stripe 1.08 ± 0.02 mm; Orange & White/Orange stripe 1.05 ± 0.02 mm<br>Green & White/Green stripe 1.08 ± 0.02 mm; Brown & White/Brown stripe 1.05 ± 0.02 mm |
| <b>Shield</b>                              |                                                                                                                                                                              |
| Material                                   | Al Mylar tape                                                                                                                                                                |
| Coverage                                   | 100% Coverage and mylar side facing out                                                                                                                                      |
| <b>Filler</b>                              | Polyolefin (PO)                                                                                                                                                              |
| <b>Braid</b>                               | Tinned Copper                                                                                                                                                                |
| <b>Electrical</b>                          |                                                                                                                                                                              |
| Dc Resistance Unbalance                    | ≤ 5%                                                                                                                                                                         |
| Conductor Resistance                       | ≤ 9.38 Ω/100m                                                                                                                                                                |
| Dielectric strength                        | 1.5 KV ac for 2 s                                                                                                                                                            |
| Insulation resistance                      | ≥ 5000 MΩ•km                                                                                                                                                                 |
| Mutual Capacitance                         | ≤ 5.6 nF/100m                                                                                                                                                                |
| Pair-To-Ground Capacitance Unbalance       | ≤ 330 pF/100m                                                                                                                                                                |
| Ac Leakage Current Throught Overall Jacket | ≤ 10mA (1.5KV AC)                                                                                                                                                            |
| Spark Test                                 | 2.5 KV DC                                                                                                                                                                    |
| Minimum bending radius                     | ≥4 times of overall diameter                                                                                                                                                 |
| <b>Delay Skew</b>                          | 45.00 Max.ns/100m                                                                                                                                                            |
| <b>Jacketed</b>                            |                                                                                                                                                                              |
| Average Thickness                          | 0.5 mm+/-0.05mm                                                                                                                                                              |
| Diameter                                   | 7.4 ± 0.20 mm                                                                                                                                                                |
| Material                                   | Polyvinyl chloride (PVC)                                                                                                                                                     |
| Color                                      | Blue                                                                                                                                                                         |
| <b>Environmental</b>                       |                                                                                                                                                                              |
| Temperature (Operating / Storage)          | -20°C - 60°C                                                                                                                                                                 |
| <b>Physical Properties</b>                 |                                                                                                                                                                              |
| Weight                                     | 17.57 kg ( 38.7 lb )                                                                                                                                                         |
| <b>Cable Length</b>                        | 305m / 1000ft                                                                                                                                                                |

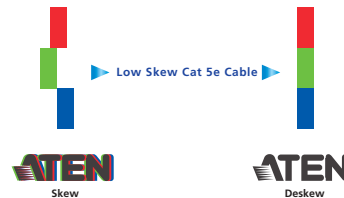
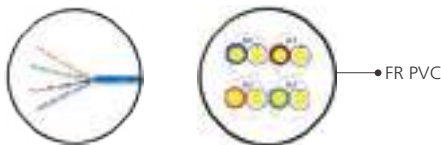
## 2L-2801 305M Low Skew Cat 5e Cable

Analog video presents a high quality image when the computer is directly connected to the monitor by short cables. "Skew" is the color phase and time errors that occur when R/G/B video signals are sent over long distance Cat 5e cables which can result in smeared, less sharp and color-fringed images. To remedy this distortion, ATEN developed a Low Skew Cat 5e cable. This high performance cable is suitable for the audio and video transmission of a wide range of video and KVM extenders. To eliminate blur and bleeding images and to ensure clear video transmissions, use 2L-2801 Low Skew Cat 5e Cable.



### Features

- Supports high quality RGB video transmissions
- Contains 305 m (1000 ft.) low skew cable
- Delay Skew: 1 ~ 350 MHz 20nS/100 m Max.
- Outer jack material: FR PVC
- Outer material: unshielded
- Conductor material: 24 AWG solid bare copper
- Compatible with ATEN analog Cat 5 video extenders, KVM extenders and Cat 5 KVM switches
- UL, ETL approved





## 2L-2801 Specifications

| Function                                          | 2L-2801                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Item</b>                                       | 24AWG × 4p                                                                                   |
| <b>Cable Length</b>                               | 305 m/ 1000 ft                                                                               |
| <b>Conductor Resistance</b>                       | 9.38 Ohm/100m/20°C Max.                                                                      |
| <b>Mutual Capacitance</b>                         | 56 Pf/M Max.                                                                                 |
| <b>Dielectric strength</b>                        | Ac 1.5 Kv/2 Sec.                                                                             |
| <b>Spark Test</b>                                 | 2.5 Kv                                                                                       |
| <b>Insulation</b>                                 |                                                                                              |
| Unaged                                            | Tensile Strength: 2400 Psi Min. (1.69 Kg/M(mxm))                                             |
| Aged                                              | Tensile Strength: Unaged Min. 75%(100°C×48hrs)<br>Elongation: Unaged Min. 75%(100°C×48hrs)   |
| <b>Jacketed</b>                                   |                                                                                              |
| Unaged                                            | Tensile Strength: 2000 Psi Min.(1.41 Kg/M(mxm))<br>Elongation: 100% Min.                     |
| Aged                                              | Tensile Strength: Unaged Min. 85%(100°C×240hrs)<br>Elongation: Unaged Min. 50%(100°C×240hrs) |
| <b>Insulation Shrinkback</b>                      | 150m/M, 121°C±1°C×1hr ≤ 9.5m/M                                                               |
| <b>Cold Bend Test</b>                             | -20°C×4hrs No.Crack                                                                          |
| <b>Flame Retardant Test</b>                       | CMR                                                                                          |
| <b>Ac Leakage Current Throught Overall Jacket</b> | Ac 1500v ≤ 10 Ma                                                                             |
| <b>Dc Resistance Unbalance</b>                    | 5% Max.                                                                                      |
| <b>Pair-To-Ground Capacitance Unbalance</b>       | 330 Pf/100m Max.                                                                             |
| <b>Characteristic Impedance</b>                   | 1 - 350 Mhz 100±15 Ohms                                                                      |
| <b>Structural Return Loss</b>                     | 350 Mhz 10.6db Min.                                                                          |
| <b>Propagation Delay</b>                          | 350 Mhz 536ns/100m Max.                                                                      |
| <b>Delay Skew</b>                                 | 1 - 350 Mhz 20ns/100m Max.                                                                   |
| <b>Physical Properties</b>                        |                                                                                              |
| Weight                                            | 9.80 kg                                                                                      |



## 2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H High Speed HDMI Cable with Ethernet ( 0.3, 0.6, 1, 1.8, 2, 3, 5, 10, 15, 20 m )



ATEN High Speed HDMI Cable with Ethernet provides an uncompressed, all-digital interface for both audio and video signals. Our cables infuse high-quality copper wire to resist interference for improved image clarity. We offer HDMI cable at lengths of 1 to 20 meters with resolutions up to True 4K (4096 x 2160 @ 60Hz).

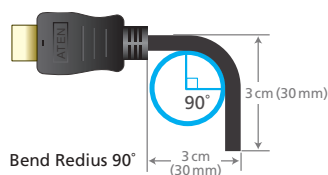


Gold-plated connectors

### Features

- Superior video quality:
  - True 4K (4096 x 2160 @60Hz): 2L-7D01H, 2L-7D02H, 2L-7D02H-1, 2L-7D03H
  - 4K (4096 x 2160 / 3840 x 2160 @30 Hz): 2L-7DA3H, 2L-7DA6H, 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H
- HDMI Ethernet Channel functionality: additional dedicated data channel supports networking<sup>1</sup>
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Gold-plated connectors for reliable data transmissions
- Available in lengths from 0.3 to 20 m
- RoHS-compliant
- Bend Radius 90°<sup>2</sup>

Note: 1. Feature only available if linked devices are HDMI Ethernet Channel enabled  
2. Swings 100 times between angles of +/- 90 degrees, at a frequency of 13 times per minute



### Specifications

| Function                   | 2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H / 2L-7D02H-1 /<br>2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H                                           |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video Resolution</b>    | 2L-7D01H, 2L-7D02H, 2L-7D02H-1, 2L-7D03H: Up to 4096X2160 @60Hz<br>2L-7DA3H, 2L-7DA6H, 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H: Up to 4096X2160 @30Hz       |
| <b>Physical Properties</b> |                                                                                                                                                            |
| Cable Length               | 0.3m, 0.6m, 1m, 1.8m, 2m, 3m, 5m, 10m, 15m, 20m                                                                                                            |
| Cable Color                | Black                                                                                                                                                      |
| Cable Outer Dimension      | 2L-7DA3H, 2L-7DA6H, 2L-7D01H, 2L-7D02H, 2L-7D03H: 6.0+-0.15mm<br>2L-7D02H-1, 2L-7D05H: 6.0+-0.2mm / 2L-7D10H: 7.3+-0.2mm / 2L-7D15H, 2L-7D20H: 10.0+-0.2mm |
| Conductor Gauge            | 2L-7DA3H, 2L-7DA6H, 2L-7D01H, 2L7D02H, 2L7D02H-1, 2L-7D03H, 2L-7D05H: 30AWG<br>2L-7D10H: 28 AWG / 2L-7D20H: 26 AWG / 2L-7D15H: 24 AWG                      |
| Conductor Material         | 2L-7D01H, 2L-7D02H, 2L-7D02H-1, 2L-7D03H: Solid bare Copper<br>2L-7DA3H, 2L-7DA6H, 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H:Tinned Copper                    |
| Connector Plating          | Gold                                                                                                                                                       |
| Connector Type             | HDMI (19pin) Male to Male                                                                                                                                  |
| Cable Shield Type          | Aluminum Foil                                                                                                                                              |
| Cable Jacket Type          | PVC                                                                                                                                                        |
| <b>Environmental</b>       |                                                                                                                                                            |
| Operating Temperature      | 80° C                                                                                                                                                      |
| Rating                     | UL VW-1 (Flame rate), CSA                                                                                                                                  |

## Cables

| Images                                                                              | Part No.                                                                                       | Length (m)                          | Interface   | To PC / Source Interface                                                                                                                                                                                                                                                                                                          | To Switch Interface                                                                                                                                                                                                                                                                                                                     | Compatible Products                                                                                                                                           |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 2L-7D02DD<br>2L-7D03DD<br>2L-7D05DD<br>2L-7D10DD                                               | 1.8<br>3<br>5<br>10                 | DVI-D       | <br>DVI-D Male (Dual Link)                                                                                                                                                                                                                       | <br>DVI-D Male (Dual Link)                                                                                                                                                                                                                           | All ATEN's DVI Devices                                                                                                                                        |
|    | 2L-7D02V                                                                                       | 1.8                                 | DVI-D       | <br>DVI-D Male (Single Link)<br><br>Audio Plug                                                                                                                  | <br>DVI-D Male (Single Link)<br><br>Audio Plug                                                                                                                    | VS172, VS174,<br>VS162, VS164,<br>VE600A, VE602,<br>VE606, VE607, CE624                                                                                       |
|    | 2L-2402A                                                                                       | 1.8                                 | VGA         | <br>HDB-15 Male<br><br>Audio Plug                                                                                                                               | <br>HDB-15 Female<br><br>Audio Plug                                                                                                                               | VS1204T, VS1208T, VS1504,<br>VS1508, VM0404, VS0202,<br>VS0201 / VS0401, VS0102 /<br>VS0104 / VS0108, VS0116,<br>VE170, VE170Q, VE200,<br>VC180, VE156, VE157 |
|    | 2L-2401<br>2L-2403<br>2L-2406<br>2L-2410<br>2L-2420<br>2L-2440                                 | 1.8<br>3<br>6<br>10<br>20<br>40     | VGA         | <br>HDB-15 Male                                                                                                                                                                                                                                  | <br>HDB-15 Female                                                                                                                                                                                                                                    | All ATEN's VGA Devices                                                                                                                                        |
|   | 2L-2502<br>2L-2503<br>2L-2505<br>2L-2510<br>2L-2515<br>2L-2520<br>2L-2530                      | 2<br>3<br>5<br>10<br>15<br>20<br>30 | VGA         | <br>HDB-15 Male                                                                                                                                                                                                                                 | <br>HDB-15 Male                                                                                                                                                                                                                                     | All ATEN's VGA Devices                                                                                                                                        |
|  | 2L-7D02U<br>2L-7D03U                                                                           | 1.8<br>3                            | DVI-D USB   | <br>USB Type A Male<br><br>DVI-D Male (Single Link)<br><br>2 Audio Plugs | <br>USB Type B Male<br><br>DVI-D Male (Single Link)<br><br>2 Audio Plugs | CM1164A                                                                                                                                                       |
|  | 2L-7D02DP<br>2L-7D03DP                                                                         | 2<br>3                              | DisplayPort | <br>DisplayPort                                                                                                                                                                                                                                | <br>DisplayPort                                                                                                                                                                                                                                    | All ATEN's DisplayPort Devices                                                                                                                                |
|  | 2L-2801<br>(Shielded)                                                                          | 305                                 | RJ-45       | <br>RJ-45                                                                                                                                                                                                                                      | <br>RJ-45                                                                                                                                                                                                                                          | All ATEN's Cat 5 / 5e /<br>6 / 6a Devices<br>for Video & Audio<br>Communication                                                                               |
|  | 2L-4101-GR<br>2L-4102-GR<br>2L-4103-GR<br>2L-4105-GR<br>2L-4110-GR<br>2L-4115-GR<br>2L-4120-GR | 1<br>2<br>3<br>5<br>10<br>15<br>20  | RJ-45       | <br>RJ-45                                                                                                                                                                                                                                      | <br>RJ-45                                                                                                                                                                                                                                          | All ATEN's Cat 5 / 5e /<br>6 / 6a Devices<br>for Data Communication                                                                                           |
|  | 2L-2910                                                                                        | 305                                 | RJ-45       | <br>RJ-45                                                                                                                                                                                                                                      | <br>RJ-45                                                                                                                                                                                                                                          | All ATEN HDBaseT products                                                                                                                                     |



# 2X-EA12 LockPro™ - HDMI Cable Lock

ATEN LockPro™, the world's most effective universal HDMI cable lock.

LockPro™, an ATEN exclusive technology, was created to prevent signal loss by ensuring a durable connection between your HDMI cables and devices in a simple, one-piece design. Since most HDMI connectors do not have a locking mechanism, it's common for them to become detached or loosened and create intermittent up to complete signal loss - making cable lock solutions essential.



## Features

- Innovative design improves stability and flexibility
- One-piece and reusable design for easy installation and removal
- Ensures strong and reliable HDMI cable connections
- Universal design for securing most cables (not limited to HDMI)
- Environmentally safe – RoHS compliant and recyclable
- Sold 10 pieces per pack

## 2X-EA12 Specifications

| Function               | 2X-EA12                                           |
|------------------------|---------------------------------------------------|
| Storage Temperature    | -20-60°C                                          |
| Humidity               | 0-95% R.H, Non-Condensing                         |
| Physical Properties    |                                                   |
| Weight                 | 1.4 g                                             |
| Dimensions (L x W x H) | 8.61 x 6.47 x 0.66 cm<br>(3.39 x 2.55 x 0.26 in.) |

## One-piece Design for Easy Installation



1 Loosen the screw above the port



2 Slide the LockPro™ over the loosened screw



3 Tighten the screw firmly



4 Wrap the LockPro™ around the cable



5 Fasten the LockPro™ strap

## Accessories

| Images                                                                              | Part No.                         | Product Name.                      | Compatible Products                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|----------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 2A-127G                          | DVI to HDMI Converter              | Compatible with all models equipped with DVI interface                                                                                                                                                                        |
|    | 2A-128G                          | HDMI to DVI Converter              | Compatible with most models equipped with HDMI interface                                                                                                                                                                      |
|    | 2L-5202B<br>2L-5203B<br>2L-5205B | Port Switching VGA Cable           | VS0801A, VE2812T                                                                                                                                                                                                              |
|    | 2XRT-0003G                       | IR Receiver Cable (38 KHz)         | VM3404H / VM3909H, VM6404H, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA / VM0808HA, VM0202H, VM5404D / VM5808D, VM0404, VS482, VS0201 / VS0401, VS481B, VS481C, VS0801HB, VE810, VP1920, VP2730, CM1284, CM1164A, VE805R |
|    | 2XRT-0003G-1                     | Full Range IR Receiver (30-56 KHz) | VM3404H / VM3909H, VE802, VE1812, VE814A, VE8900 / VE8950, VE816R, VE883, VE1832, VE2812T, VE2812R, VE2812EUT, VE2812UST                                                                                                      |
|    | 2XRT-0004G                       | Full Range IR Emitter (30-56 KHz)  | VK1100, VK2100, VE802, VM3404H / VM3909H, VE1812, VE814A, VE8900 / VE8950, VE816R, VE805R, VE883, VE1832                                                                                                                      |
|    | 2XRT-0007G                       | IR Remote Control                  | VS0801H, VS881, VS0801A, VS0801HB                                                                                                                                                                                             |
|   | 2XRT-0010G                       | IR Remote Control                  | VS482                                                                                                                                                                                                                         |
|  | 2XRT-0013G                       | IR Remote Control                  | CM1164A, CM1284                                                                                                                                                                                                               |
|  | 2XRT-0101G                       | IR Remote Control                  | VM0202H, VS481A, VS481B, VS261 / VS461, VS0201 / VS0401, VS481C                                                                                                                                                               |
|  | 2XRT-0106G                       | IR Remote Control                  | VM3404H, VM6404H, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA / VM0808HA, VM5404D / VM5808D, VM0404, VM0202H                                                                                                             |
|  | 2XRT-0301G                       | IR Remote Control                  | VE200                                                                                                                                                                                                                         |
|  | 2XRT-0109G                       | IR Remote Control                  | VP1920                                                                                                                                                                                                                        |
|  | 2XRT-0110G                       | IR Remote Control                  | VP2730                                                                                                                                                                                                                        |
|  | 2X-020G                          | Mounting Kit                       | VM0404, VS0401, VS0108                                                                                                                                                                                                        |
|  | 2X-RC1700                        | Video Wall Rack                    |                                                                                                                                                                                                                               |
|  | 2X-030G                          | TV Bracket Set (L+R)               |                                                                                                                                                                                                                               |
|  | 2X-031G                          | Single Rack Mounting Kit           | VK1100                                                                                                                                                                                                                        |



## Corporate Headquarters

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