



# Airborne Technologies

## OQPSK/BPSK Compact Data Link

### D-ATKS System

### Wide Band Digital Tactical Link

IPR compact size D-ATKS Compact Data Link system, is specifically designed for Wide Band communications purposes all kind of Airborne Platforms: Rotary – Fixed Wings, Manned or Unmanned

Reliable OQPSK/BPSK data transmissions, support ISR missions and more in Line of Sight conditions (LoS) over 200 Km.

The system is engineered to work on a wide frequency range upon specific requests

Based on a LAN Ethernet interface, it enables the streaming of commands over IP, telemetries, GPS positioning, controlling data and more

Includes bi-directional full duplex symmetrical capabilities (Uplink/Downlink)

According to the modulation scheme, it is capable of an uplink/downlink data speed up to 20Mbit/s

Data transmission is AES standard @ 256 bit Encrypted

### Main Sub-assemblies:

- ATD Onboard Modem
- Airborne Omni Antenna (2dBi)

## Reliable personalized solutions

All critical technologies' parts are developed produced and integrated by IPR providing an outmost degree of customization: systems can be tailored to end users' specific layout and weight requirements

# Technical Features

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## Electrical

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**Interface:**

LAN Ethernet 10/100 Base-T/Serial interface

**Frequency Band:**

UHF - S - C Available on request

**TX/RX Modulation:**

OQPSK/BPSK

Other on request

**Data Speed:**

Downlink: Up to 20 Mbits

Uplink: Up to 20 Mbits

**Receiver Sensitivity:**

≥ -95 dBm

10 Mbits

**RF Output Power:**

+40 dBm

±1 dBm

**Spread Spectrum:**

Option available uplink

**Supply Voltage:**

18 to 32 VDC

Other available on request

**Encryption:**

AES @ 256 bit

**Video Inputs:**

Composite NTSC-PAL

SD/HD SDI

## Mechanical

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**Weight:**

~3,5 Kg

## Environmental

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**Storage Conditions:**

-55° / +85°

**Operating Conditions:**

-40° / +70°

**RTCA-DRO160**



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