











Hytera, complying with ETSI TETRA open standard, brings you versatile TETRA series products, including portable radio, mobile radio, data modem, base station and various solutions. Hytera responds to your demands for mission critical with the most valuable solution of leading digital technologies, innovative user-oriented product design and complete product portfolio.





Avda. Fuente Nueva, 12. 28703 San Sebastián de los Reyes - Madrid - España Tel.: +34 916588760. Fax: +34 916588769 E-mail: marketing@cartronic.es www.grupocartronic.com www.linkedin.com/company/cartronic-group

### Hytera Communications Corporation Limited

Address: HYT Tower, Hi-Tech Industrial Park North, Beihuan Rd. Nanshan District, Shenzhen, China Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057 Http://www.hytera.com Stock Code: 002583.SZ

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TETRA, an advanced and popular digital trunking standard, delivers multiple-base wireless communications for various demanding situations with its powerful dispatching and data transmission functions.

Hytera, as the leading provider of professional wireless communications equipment and a member of TETRA MoU, offers a series of TETRA products complying with ETSI TETRA open standard. Characterized by superior performance, comprehensive solution, novel appearance, user-friendly menu and flexible configuration, Hytera TETRA products provide efficient, reliable communications for industry clients of public security, airport, port and subway etc, with its innovative applications and unique functions.



# What is TETRA?

TETRA (Terrestrial Trunked Radio) is an open standard for digital mobile radio communication defined by ETSI (European Telecommunications Standards Institute). It was developed to meet the needs of the most demanding professional radio users who need fast one to-one and one-to-many radio communication using voice and data in their daily work. TETRA provides a high-end solution for small private systems up to large public networks, while preserving characteristics and advantages of private land mobile radio systems, such as fast call set-up, group calls, and direct mode communication.

# TETRA: new level of PMR Technology

TETRA is a highly advanced technical platform providing integrated voice and data services. This combined with outstanding connectivity possibilities set a whole new level in PMR technology.



# What does TETRA offer?

- Private Network
   Total network control without depending on operators.
- 2 Digital trunking system (cellular)
  Robust communication. Several options for network
  coverage redundancy. If a repeater fails, modems roam
  and the monitoring system is not interrupted.
- 3 High spectral efficiency Cost savings
- 4 Network Growth capacity / Possibility of additional services (voice, etc.)
- 5 Data services

Availability of different data services to be adapted to communication needs:

Short Data Messages (SDS) and Status Messages
Standard Packet Data service (PD)
Circuit Mode Data (CMD)





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<sup>\*</sup> More about TETRA standard, please visit www.tetramou.com



# Why TETRA?

The main reason for adopting PMR services is its special functions, such as group calls (one-to-many), advanced group configuration, instant communications without call set-up delay and maximum security.

Another specialized service is dispatching which helps an organization manage its field operations and related communications. For public safety organizations security is fundamental and requires authentication of the network's users as well as encryption of voice and data communication. For many organizations, being able to control network resources is crucial.

## **TETRA Technical Characteristics**

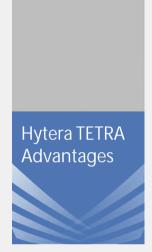
- High quality and high security in communications;
- Double spectral efficiency;
- Higher data bandwidths (up to 28.8 kbps);
- Multiple real-time data services;
- Half-duplex and full-duplex communications;
- Interoperable with other networks;
- Continuous coverage;
- Emergency calls;
- Fast call setup;
- Simultaneous voice and data;
- · Open standard technology: protects investment.

# **Global Markets**

TETRA technology fulfills the requirements of a wide group of PMR users. They are typically public safety and security organizations like police, fire and rescue forces, ambulance services, frontier guards and other professional cellular users like transportation companies, courier services, energy utilities, airports and so on. Most TETRA networks for public safety and security (PSS) users such as police, fire and rescue services are government owned. Other networks are either privately owned or run by network operators who invest in the network and sell communications services to private companies and government agencies.







# Innovative Design & Convenient Operation

Patented antenna

The radio antenna and GPS antenna are integrated to ensure convenience and better performance.



2 Large-size color display & multilingual UI

The large-size TFT LCD display with multilingual UI delivers you favorable accessibility.



### 3 Separated knobs

Separated by the antenna, the two knobs of portable radio stand apart from each other, which reduces misoperation when with gloves on or under dim light.



### 4 User-friendly menu

The menu gives you quick access to all services and functions. Our TETRA products, terminal and mobile, employ the same UI style so that you can learn to operate different models easily.



### 5 Ergonomic key

The smart body incorporates big keys for ease of use and precise operation.



### **6** 2-in-1 knob

The mobile radio employs a 2-in-1 large knob to adjust the channel and volume quickly.



# Reliable quality & Superior performance

### 1 Rugged and reliable

Compliance with MIL-STD-810 C/D/E/F/G requirements, ensure outstanding performance even under harsh environments.



### 3 High RF output power for large-area coverage

High RF output power (portable up to 3W, mobile up to 10W) can effectively enlarge signal coverage, including basement and in-door coverage.

### 2 IP67 compliance

PT580H complies with IP67 requirements, withstanding immersion testing (1meter up to 30 minutes).



### 4 High compatibility

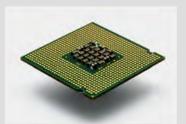
Strong network compatibility can accommodate the interconnection requirements of TETRA MoU, and be compatible with systems and terminals of other manufacturers.



# Flexibility & Scalability

### Customized encryption

Besides TETRA standard encryption, advanced encryption tailored to users' demands can also be achieved to ensure communication confidentiality.



### 3 Software upgradable

Authorized dealers can download the Software Upgrade Kit on Hytera official website\*; this can help end-users upgrade software and enjoy further features with an ease.

### 2 Further development port

Our TETRA products reserve port for you or any third party to further develop desired functions such as GPS, call control and telemetry.



### 4 Customizable interface

Users can customize the operation interface of portables and mobiles, shielding unnecessary menus to simplify operation and improve efficiency.



# ACCESSNET®-T IP TETRA Infrastructure

ACCESSNET® -T IP is a comprehensive and efficient solution for all professional mobile radio applications.

# **TETRA Base Station DIB-500 R4.1**

• "Best in Class" radio characteristics

Sensitivity - 119 dBm (TOC)

Tx Output Power max. 50 W

Up to 8 Carriers (= 32 radio channels)

• Net-wide and local switching capability

Full-featured Fallback Mode guarantees continuing operation when isolated from switch all TETRA security features will not be compromised even when isolated from network Compact design

Dimensions (HxWxD): 900x600x600 mm Weight max. 100kgs Integrated Tx+Rx Filters

- 400 and 800 MHz frequency band
- Outstanding power efficiency
   350 Watt (1 carrier), 550 Watt (2 carrier)

# System Controller Node IPN

 Provides full IP-based TETRA soft-switching functions, applications and gateways

Application Interface (A-CAPI)
PSTN/PBX (SIP, S0, S2m)
Packet Data interface (IP)
IBS interface (IP)
Network Database (Subscriber register)
Voice and Data Recorder

- Based on carrier-grade servers (COTS) as one common HW platform
- Voltage 110-230 VAC, others on request
- Compact Design

Dimensions (HxWxD): 900x600x800 mm Weight: 100 kg

# System Architecture

ACCESSNET®-T IP was developed in compliance with the specifications issued by the European Telecommunications Standards Institute (ETSI) and meets all the requirements of the internationally recognized ETSI TETRA standard.

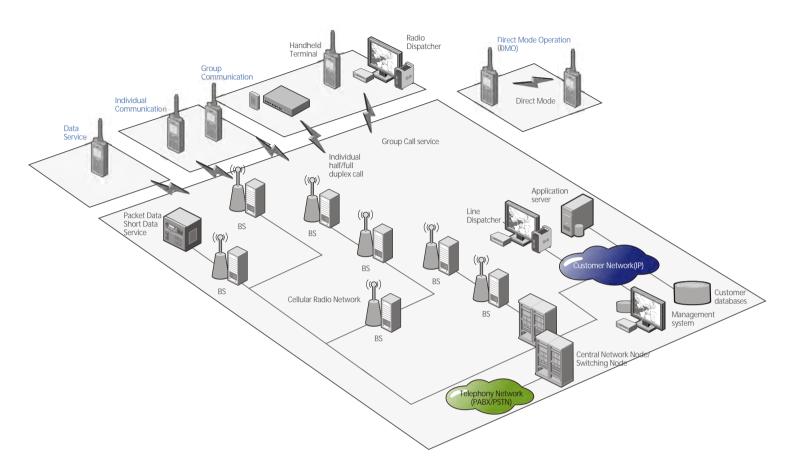
The ACCESSNET®-T IPTETRA radio system is a highly scalable digital TETRA mobile radio system. It can be used to implement structures ranging from single-cell systems up to nationwide networks. It supports decentralized and centralized network architectures, enabling it to optimally satisfy all user requirements. Besides, it provides unsurpassed system availability based on an elaborate redundancy concept, as well as exceptional robustness.







# Networking Topologies ACCESSNET® -T IP



# ACCESSNET®-T IP Leading-Edge in TETRA

TETRA Base Station	Services and Features	Network Management	System/Infrasturucture	
Highest Sensitivity -119 dBm	Multi-Agency Support with	Fully integrated NMS	Geographically	
(static, top of Cabinet)	VPN (Virtual Private Network)	(single-vendor R&S product,	Distributed Redundancy	
Guaranteed (not typical value)		TETRA optimized)		
	Full TETRA Security options		Modular and	
Full-featured Fallback Mode		Graphical, Tool based	Distributed Switching	
including···	Full TETRA Data options	network configuration	with high scalability	
<ul><li>Authentication</li></ul>				
<ul> <li>Air Interface Encryption</li> </ul>	Flexible, IP based	Central Repository for	E1 or IP based links	
<ul> <li>All call services</li> </ul>	application interface	complete network		
		configuration	High COTS content	
Local Gateways and	Secondary Control			
Switching Capability	Channel for scenarios	Open SNMP Interfaces	Full IP based switching	
	with high data/signaling load	to umbrella Mgmt. and	architecture (Soft switching)	
Remote Software and		external network elements		
Configuration Update	Fully Integrated End-to-End			
	Encryption incl. voice	Role-based Access Control		
	recorder and dispatcher	to all NMS facilities		



# PT580 TETRA Portable Radio

Powered by compact body, IP56 compliance, 1.8-inch high resolution color display,1W RF output and clear digital voice, the TETRA portable radio PT580 will refresh your communication experience.

# Innovative Design

### Large-size color display

PT580 adopts a 1.8-inch high resolution color transflective LCD display (up to 6 lines), allowing good visibility even under sunshine.

### ② Ergonomic key

The smart body incorporates big keys for your comfort and convenience.

### ③ IP56 compliance

Compliant with IP56 requirements, it works well after the direct jet of water.

### ④ Display & keyboard protection

Avoid damage to the display and keyboard while falling, enhancing durability.

### ⑤ 2-in-1 knob

Easy channel selection and volume control with one knob.

# **Other Features**

### Rugged and reliable

Compliance with MIL-STD-810 C/D/E/F, ensure outstanding performance even in harsh environments

### Vibration

This feature is helpful in alerting you to reception of any voice or message under noisy or low-volume conditions.

### Powerful speaker

The built-in 1W speaker in PT580 generates loud and clear voice even under noisy environment.

### Reversible screen

When the radio is belted on the waist, you can read the screen just by reversing the screen instead of reversing the whole radio.

### Man down

An alarm will be triggered when the radio is down or positioned aslant for a preset time period, improving user safety.





Distinguished by IP67 compliance, 1.8-inch high resolution color display, 3W RF output, clear digital voice, man down and GPS positioning, the TETRA portable radio PT580H will enrich your communication experience.

# Innovative Design

### Patented antenna

The radio antenna and GPS antenna are integrated to ensure convenience and better performance.

### ② Separated knob design

Separated by the antenna, the two knobs of portable radio stand apart from each other, which reduces misoperation when with gloves on or under dim light.

### 3 Large-size color display

PT580H adopts a 1.8-inch high resolution color transflective LCD display (up to 6 lines), allowing good visibility even under sunshine

### 4 Ergonomic key

The smart body incorporates big keys for your comfort and convenience.

### ⑤ IP67 compliance

Compliant with IP67 requirements, withstanding immersion testing (1meter up to 30 minutes)

### 6 Display & keyboard protection

Avoid damage to the display and keyboard while falling, enhancing durability.



# Other Features

### Rugged and reliable

Compliance with MIL-STD-810 C/D/E/F/G, ensure outstanding performance even under harsh environments.

### High RF output power

PT580H gets a RF output power up to 3W\*; effectively enlarges signal coverage, including basement and in-door area.

### GPS positioning

The built-in GPS port supports GPS message transmission, GPS positioning and visualized dispatching.

### Man down

An alarm will be triggered when the radio is down or positioned aslant for a preset time period, improving user safety.

### Vibration

This feature is helpful in alerting you to reception of any voice or message under noisy or low-volume conditions.

### Powerful speaker

The built-in 1W speaker in PT580H generates loud and clear voice even in noisy environment

### Reversible screen

When the radio is belted on the waist, you can read the screen just by reversing the screen instead of reversing the whole radio.

### Programmable keys

Quick access to functions by 20 programmable keys.

### High compatibility

Meet IOP requirements of TETRA MOU, Hytera TETRA products can be compatible with equipments of other vendors and have accomplished IOTs.

### Upgradable software

Software upgrade packages could be downloaded from Hytera website to let you enjoy the latest features in time.

### • Further development

Reserve ports for you and any third party to further develop desired functions.





10W RF output power, easy operation, flexible installation, front panel compliant with lp67\*, and built-in powerful speaker; Hytera TETRA mobile radio offers you real-time communications and dispatching for mission critical.

# **Innovative Design**

### Large-size color display

MT680 adopts a 2.8-inch 260K color TFT LCD display (up to 6 lines), allowing good visibility even under sunshine.

### ② 2-in-1 knob

Easy channel selection and volume control with one knob

### 3 Knob whitening ring

The channel/volume knob can also work as a status indicator.

### 4 Reliable handheld microphone port

The reliable handheld microphone port is compliant with military requirements, ensuring communication consistency.

### ⑤ Programmable keys

20 programmable keys available for shortcut access to facilitate your operation.



20 programmable keys

### 6 Flexible installation

MT680 allows much installation flexibility. You may integrate the front panel with the main unit, or install it separately. The front panel is IP67 compliant.

### ② Ergonomic key

The smart body incorporates big keys for your comfort and convenience.

# Other Features

### Rugged and reliable

Compliance with MIL-STD-810 C/D/E/F/G, and passing of HALT (Highly Accelerated Life Test), ensure outstanding performance even under harsh environments.

### High RF output power

MT680 gets a RF output power up to 10W, effectively enlarging signal coverage.

The built-in GPS port supports GPS message sending, positioning and visualized dispatching.

### Built-in 4W powerful speakers

No external speakers, saving installation space as well as cost.

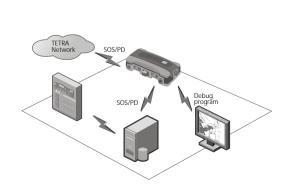


Flexible installation





Powered by professional modular design, 3W RF output power and rich application interfaces, Hytera TETRA data modem provides efficient and reliable data acquisition and remote monitoring for professional users in electricity, water industry hydraulic engineering, and oil pipeline etc.



# Main Interface

- ① Dat (DATA) indicator
- 2 Reg (Register) indicator
- ③ GPS working indicator
- 4 Power indicator
- (5) ON/OFF button
- 6 GPS antenna interface
- PEI interface
- 8 Power interface
- Debugging interface
- TETRA antenna interface

- Main Features
- 3W RF output power
- Compact body & flexible installation
- Status indicator
- Standard PEI interface
- Supporting PPP/AT
- DNP3, IEC101
- Built-in GPS port
- User-friendly PC interface
- SDS Messages
- Packet data/Services







PBT580H is the transceiver board which is modified from PT580H subscriber hardware platform. Proven in PT580H series portable radio, PBT580H provides a highly flexible and customizable TETRA transceiver board to meet the requirements for 3rd party solution providers.

# Main Interface

### 1 Antenna connector

The antenna connector is a 50  $\Omega$  impedance-matching female MCX connector. It is the combined TETRA+GPS port.

### 2 Power supply

The power supply connector is using 6-pin board-to-wire connector. The power input cable with fuse-protected and high voltage protected is commended.

### 3 SIM connector

The SIM Connector is using 10pins board-to-board connector. It provides interfaces to the external SIM Card slot for E2EE encryption purpose.

### 4 AT/Data & I/O interface

The AT/Data & I/O connector is using 40-pins board-to-board connector. AT Commands can be used to manage and control the functionality of the PBT580H. PBT580H is using combined interface for AT Command and Data transmission, only one mode could be operated at one time. External switch to separate individual interface could be implemented in 3rd party development. PBT580H is equipped with 6 programmable I/O lines that can be configured and controlled using AT Command and SDS.

# Specification

### Operating voltage

7.4V  $\pm$  15% connector. It is the combined TETRA+GPS port.

### Operating temperature

-25°C to +65°C

# • Storage temperature -40°C to +85°C

Humidity

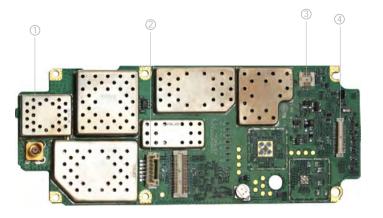
# ≤95%

SafetyEN 60950-1

### • EMC EN-301-489

Dimension

119mm x 46mm x 10mm







Hytera also provides a full line of professional accessories (such as audio accessory, battery, charger and carrying accessory\*) to deliver an optimal communication experience.

# For Portable Radio\*

### Battery

BL1805 Li-ion Battery (1800mAh) (Standard Accessory) (PT580) BL1806 Li-ion Battery (1800mAh) (Standard Accessory) (PT580H)

BL3201 Li-ion Battery (3200mAh) (PT580)

### Charger Accessory

CH10L13 Dual Pocket MCU Charger (Standard Accessory) (PT580)
CH10A04 MCU Rapid-rate Charger (Standard Accessory) (PT580H)

MCA05 Battery Optimizing System (PT580H)
MCA06 MCU Multi-unit Rapid-rate Charger (PT580H)



CH10A04

### Carrying Accessory

RO04 Leather Strap (Standard Accessory)

BC17 Spring Belt Clip (Standard Accessory) (PT580)

BC08 Spring Belt Clip (Standard Accessory) (PT580H)

LCY002 Carrying Case (Thin Battery) (Leather) (Swivel) (PT580)

LCY003 Carrying Case (Thick Battery) (Leather) (Swivel)

GPS dual-frequency antenna 350-400MHz/1575MHz 380-430MHz/1575MHz 410-430MHz/1575MHz 450-470MHz/1575MHz 806-870MHz/1575MHz

Antenna



LC 1003 Carrying Cas



Combination GPS/UHF Antenna

<sup>\*</sup> Unless exceptional notification, accessories applicable for PT580H and PT580



### **Audio Accessory**

EHN12 D-earset with on-MIC PTT ESN10 Earbud with on-MIC PTT EAN16

Earpiece with On-MIC PTT & Transparent

Acoustic Tube

EAN17 3-wire Surveillance Earpiece with Transparent

Acoustic Tube (Beige)

3-wire Surveillance Earpiece with Transparent EAN18

Acoustic Tube(Black)

SM18N1 Waterproof Remote Speaker Microphone

(IP57) (PT580)

SM18N3 Waterproof Remote Speaker Microphone

(IP57) (PT580H)

ESS07 Receive-Only Earbud

(for use with remote speaker microphone)

ESS08 Receive-Only Earpiece with Transparent Acoustic Tube

(for use with remote speaker microphone)

### Power Source

PS1014 **US-standard Switching Power Adapter** PS1016 **UK-standard Switching Power Adapter** AU-standard Switching Power Adapter PS1017 PS1018 **EU-standard Switching Power Adapter** KR-standard Switching Power Adapter PS1025 JP-standard Switching Power Adapter PS1027 Vehicle Adapter for charger, (Output:12V 1A) CHV09



Programming Cable (USB to Serial Port) PC36



FAN17

MCA05







EHN12



SM18N3



AN0390M02 UHF/380-400MHz, TQC-400FC3 dBi

> BNC-M Connector, M110 Cupule MOBILE GPS Antenna, SMA, 1575MHz

**Mounting Accessories** 

BRK10 Mounting Bracket

Power Accessory

GPSO4

PS22002 Power Supply for Mobile Radio

(300W, Backup Power Supply applicable)

Vehicle Power Cord (>15A) PWC10

Maintenance Kit

PC41 Data Cable (USB to DB9 Female Connector) PC42 Data Cable (USB to DB9 Male Connector)

# For Mobile Terminal

### Antenna

GPSO4

AN0390M01 UHF/380-400MHz,TQC-400FC3.5dBi

BNC-M Connector, M110 Cupule/ MOBILE GPS Antenna, SMA, 1575MHZ

Audio Accessory

Palm Microphone (Standard Accessory) SM16A1

SM10A1 Desktop Microphone SM09D1 External Speaker

### Power Source

Power Supply for Mobile Radio PS22002

(300W,Backup Power Supply applicable)

PWC10 Vehicle Power Cord (>15A) (Standard Accessory) POA33 Tube Fuse 32VAC-15A (Standard Accessory)

### Vehicle mounting Accessories

Mounting Bracket BRK11 SM07 Palm microphone hanger

### Maintenance Kit

PC35 10pin-connector Programming Cable (USB to Serial por)

PC39 DB26-connector Data Cable (USB to Serial port)



Ps22002



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SM16A1





AN0390M01

ACCESSNET®-T IP DIB 500 R4.1									
	Specifications in brief								
Frequency ranges	Frequency Bands	RX/TX: 380 MHz to 486 MHz RX: 806 MHz to 876 MHz TX: 851 MHz to 921 MHz (others on request)							
Characteristics	Receiver sensitivity 1								
	Static (4 % BER with TCH7.2)	- 119dBm							
	Dynamic (4 % BER with TCH7.2 and TU50)	- 113dBm							
	Dynamic (in line with EN 300 392-2 class A)	- 108dBm							
	Dynamic (in line with EN 300 392-2 class B)	– 110dBm							
	Output power at transmitter output	50W							
	Maximum RF output power(after antenna coupling network)	25W <sup>*2</sup>							
tics	Diversity reception	dual as standard							
	Operating mode	duplex							
		RX/TX							
	Antenna configuration	RX/TX + RX							
		2 x RX/TX (high-power version)							
		hybrid combiner							
	Antenna coupling network	cavity combiner (with additional components)							
		high-power version with 2 duplexers							
Radio capacity	Maximum number of TETRA carriers	8							
	Maximum number of communications channels	31							

	ACCESSNET®-T II		
	General	data	
<u> </u>	Operating temperature range	+5 °C to +45 °C	
<u> </u>	Storage temperature range	- 40°C to +70°C	
7 e L	Relative humidity	5 % to 85 % (non-condensing)	
Sia HAT		48 V DC (nominal)	
7 <u>0</u> . Z0	Power supply	110 V AC (optional)	
nt c		230 V AC (optional)	
CON	Power consumption	550 W (two carriers)	
0	rower consumption	1100 W (four carriers)	
sno	Cooling	integrated active fans	
196	Degree of protection	IP 40	
Ambient conditions (in line with FN 300019-1-3 class 3 1)	Interfaces	E1, Ethernet LAN, GPS signal, external alarm contacts	
		configuration of base station	
		software upgrades	
	Local and remote access	management of internal and external alarms	
		network management access	
Fe	Internal redundancy of base station	full-featured fallback mode in case of interconnecting network failure	
Features	Synchronization	GPS	
res		uninterruptible power supply (UPS)	
	Additional components	AC power supply unit (PSU)	
		additional remote monitoring system (RMS)	
	Dimensions (W x H x D) <sup>*3</sup>	600 mm x 910 mm x 600 mm (23.6 in x 35.8 in x 23.6 in), 18 height units	
	Weight *3	max. 100 kg (220.5 lb)	

Ordering information

Designation Type

Digital Indoor Base Station ACCESSNET®-T IP DIB-500 R4.1-x \*4\*



		Transceiver Board	Portable Radio		Mobile Radio	Data Modem
		PBT580H	PT580	PT580H	MT680	DT600
General Specifications	Frequency Bands	380-430MHz	806-870MHz	350-400MHz 380-430MHz 410-470MHz 806-870MHz	350-400MHz 380-430MHz 410-470MHz 806-870MHz	380-430MHz 410-470MHz
	Dimensions (HxWxD)	119 × 46 × 10mm	125 x 53.5 x 32mm	127.5 x 54.5 x 35.5mm	70 x 184 x 201mm	194 x 133 x 46mm
fica	Weight	40g	265g (with battery and antenna)	348g (with battery and antenna)	1900g	< 980g (with GPS receiver)
atic	Battery	-	1800mAh Li-lon battery	1800mAh Li-lon battery	-	-
sno	Battery Life (5/5/90 Duty Cycle)	-	>10hours	>16hours	-	-
	Operating Voltage	7.4V	3.7V	7.4V	10.8V-15.6V (Typical values 13.2V)	10.8V-15.6V (Typical values 13.2V)
	LCD Color Display	-	1.8inch, 160*128pixels, 65536colors	1.8inch, 160*128pixels, 65536colors	2.8inch, 320*240pixels, 260K colors	-
	Talk Groups - TMO	-	2048	2048	2048	-
	Talk Groups - DMO	-	1024	1024	1024	_
_	Phonebook	_	512	512	512	_
User Interface	Missed Calls	-	20	20	20	-
Inte	Received Calls	-	20	20	20	-
erfa	Dialed Calls	-	20	20	20	_
ЭЭ	Inbox	-	50	50	50	-
	Outbox	_	20	20	20	-
	Drafts	-	10	10	10	-
	Scan Lists	_	64 (200 groups in each list)	64 (200 groups in each list)	64 (200 groups in each list)	_
	RF Channel Bandwidth	25KHz	25KHz	25KHz	25KHz	25KHz
RF	RF Power Output	3W	1W	3W	10W	3W
Spe	RF Power Level Accuracy	±2dB	±2dB	±2dB	±2dB	±2dB
cific	Receiver Class	ETSI EN 392-2/396-2 Class A				
RF Specifications	RX Static Sensitivity	-112dBm (typical -116dBm)				
ons	RX Dynamic Sensitivity	-103dBm (typical -105dBm)				
	Maximum Audio Power Output	_	1.5W	1W	4W (internal) 10W (external)	-
GP.	Sensitivity	≤-138dBm acquisition sensitivity	_	≤-138dBm acquisition sensitivity	≤-138dBm acquisition sensitivity	≤-138dBm acquisition sensitivity
GPS Specifications		≤-154dBm tracking sensitivity	-	≤-154dBm tracking sensitivity	≤-154dBm tracking sensitivity	≤-154dBm tracking sensitivity
ecifi	Accuracy	≤10m	_	≤10m	≤10m	
cati	Cold Start (Time to First Fix)	<50s	-	<50s	<50s	<50s
ons	Hot Start (Time to First Fix)	<10s	-	<10s	<10s	<10s
	Operating Temperature	-25°C ~ +65°C	-25°C ~ +65°C	-25°C ~ +65°C	-25°C ~ +65°C	-30°C ~ +70°C
Env	Storage Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
iror	Humidity	ETS 300 019 (95%)	ETS 300 019 (95%)	ETS 300 019 (95%)	ETS 300 019 (95%)	0%~100%
Environmenta	Water and Dust Protection	-	IEC60529, IP56	IEC60529, IP67	IP54 (main unit) IP67 (front panel) IEC60529 or GB-4208-93	IEC60529, IP54
_	Drop, Shock & Vibration	_	MIL-STD- 810C/D/E/ F		MIL-STD- 810C/D/E/ F/G	

For more information, Please visit a www.hytera.com

To purchase , become a dealer or application partner, please contact us  $\ \boxtimes \ TETRA.marketing@hytera.com$ 

<sup>\*1</sup> Sensitivity after antenna coupling network without diversity reception.

\*2 With two duplexers.

<sup>\*3</sup> With four TETRA carriers.

<sup>&</sup>lt;sup>4</sup>Number of TETRA carriers in an ACCESSNET®-T IP DIB-500 R4.1 base station.