



PT580H

TETRA Portable Terminal

Distinguished by IP67 compliance, 1.8-inch high resolution color display, 3W RF output (1.8W for 806-870MHz), clear digital voice, man down and GPS positioning, the TETRA portable terminal PT580H will enrich your communication experience.





PT580H

Highlights

Performance Through Innovation

PT580H has a globally patented Industrial design with antenna in the middle position, providing Omni-directional antenna pattern for better coverage performance. Antenna used in PT580H is a patented design which is short in length and having GPS antenna integrated. Separated by the antenna, the two knobs of the portable radio stand apart from each other, which reduces accidental activation when changing volume or channel.

User Friendly Interface

PT580H's compact and large textured keys provide an excellent tactile feeling. The large TFT color display enables you to access pertinent information with ease, even under bright sunlight. As many as 20 programmable keys are configurable for quick access through one button operations.

Reliable Through Design

PT580H is designed to comply to TETRA ETSI Standard, MIL-STD- 810 C/D/E/ F/G, IP67 Dust & Water Protection and Hytera ALT Test simulating over years usage. These tests ensure PT580H will stand up to the toughest conditions and environment.

Versatile Services

In addition to voice and data communication services, PT580H also allows users to customize various functions, including GPS, Encryption, Man-Down, etc.

Instant and Seamless Communication

PT580H enables quick access to TETRA networks and roaming services. Additionally, PT580H provides powerful interoperability with base stations and terminals of different manufacturers.

High RF output power

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



Features

Operation Mode

- ▶ Trunking Mode Operation (TMO): communications over TETRA network (semiduplex and full duplex mode)
- ▶ Direct Mode Operation (DMO): direct communications between terminals without network intervention (semiduplex mode)

Voice Services

Group Call

- ▶ Standard Group Call
- ▶ Priority Group Call
- ▶ Emergency Group Call
- ▶ Broadcast Call
- ▶ Late Entry
- ▶ Talking Party Identification
- ▶ DGNA Service
- ▶ Group Call Scan
- ▶ Talk Group Management

Individual call

- ▶ Standard Half Duplex Individual Call
- ▶ Standard Full Duplex Individual Call (TMO)
- ▶ Priority Individual Call
- ▶ Emergency Individual Call
- ▶ Calling Identification
- ▶ Pre-emption Priority Call

Telephone Call (PSTN/PABX)

- ▶ Full Duplex Telephone Call
- ▶ DTMF
- ▶ Calling Identification
- ▶ Pre-emption Priority Call

Security Services

- ▶ Authentication
- ▶ Air Interface Encryption TEA 1, TEA 3, TEA 4
- ▶ E2EE (End-to-End Encryption) Security Services ★
 - E2EE Encryption Module
 - Multiple Algorithm Support
- ▶ PIN/PUK Code Access
- ▶ Security Class 1, 2, 3
- ▶ Ambient Listening
- ▶ Discreet Listening
- ▶ Stun/Kill
- ▶ Configure Information Protection

User Safety

- ▶ Emergency Button
- ▶ Man Down
- ▶ Keypad Lock
- ▶ Out of Network Alarm
- ▶ Multimode GPS Application
- ▶ Low Battery Alarm
- ▶ Vibration Informing
- ▶ Emergence Call Red Screen

Data / Message Services

- ▶ Short Data Service (SDS) -- Type1, Type2, Type3, Type4, TL Data
- ▶ Status Message
- ▶ Packet Data Service (PEI)
- ▶ One Button-trigger Status Message
- ▶ Long SDS Receiving
- ▶ Further Developing Interface Reserved
- ▶ At Command (PEI)

Global Positioning Service

- ▶ Built-in and Fully Integrated GPS
- ▶ Position Information Transmission during Emergency Call
- ▶ Time Synchronization and Calibration
- ▶ Multimode GPS Application (time trigger, distance trigger, time & distance trigger)
- ▶ Remote Enable/Disable
- ▶ Support Lip Protocol
- ▶ Position Information Display

Ergonomic Design Feature

- ▶ Patented 65mm/95mm Integrated GPS Antenna
- ▶ Unique ID with Antenna in the middle Position to provide Omni-directional Antenna Pattern
- ▶ Easy Accessible Rotary Knob with Distanced Position Gap
- ▶ Easy Operation and Configurable Keypad/Controls
 - Dual Colors Tactile PTT Button
 - Alphanumeric Keypad
 - Emergency Button
 - 4-ways Navigation Key
 - 20 Programmable Shortcut Keys
- ▶ High Definition and User Friendly Display
 - 160 x 128 pixels LCD with 65,536 colors
 - Adjustable Display Brightness
 - Screen Invert
 - 11 Languages (English, Simplified Chinese, Korean, Russian, Spanish, German, French, Farsi, Catalan, Malay, Arabic)*
 - Tri-color LED Indicator
 - Date and Time Display/ Calendar Display

- ▶ High Quality Audio Design
 - Upper Microphone for Half Duplex Call
 - Lower Microphone for Duplex Call
 - Earpiece for Duplex Call
 - Build-in Loud Speaker
- ▶ Lockable Accessory Side-Connector
- ▶ Selectable Ringing Profile
- ▶ Selectable Menu (via CPS)
- ▶ Network status display
- ▶ Screen Background Changable (via CPS)

* Multi-language is available on request.











Specifications

General	Frequency Bands	350-400MHz/380-430MHz 410-470MHz/806-870MHz
	Dimensions (HxWxD)	127.5 x 54.5 x 35.5mm
	Weight	348g (with battery and antenna)
	Battery	1800mAh Li-Ion battery
	Battery Life (5/5/90 Duty Cycle)	>16hours
	Operating Voltage	7.4V
RF Specifications	RF Channel Bandwidth	25KHz
	RF Power Output	3W/1.8W (for 806-870MHz)
	RF Power Level Accuracy	± 2dB
	Receiver Class	ETSI EN 392-2/396-2 Class A
	RX Static Sensitivity	-112dBm (typical -116dBm)
	RX Dynamic Sensitivity	-103dBm (typical -105dBm)
GPS	Maximum Audio Power Output	1W
	Sensitivity	-138dBm acquisition sensitivity -154dBm tracking sensitivity
	Accuracy	10m
	Cold Start (Time to First Fix)	< 50s
	Hot Start (Time to First Fix)	< 10s

User Interface	LCD Color Display	1.8inch, 160*128pixels, 65536colors
	Talk Groups - TMO	2048
	Talk Groups - DMO	1024
	Phonebook	512
	Missed Calls	20
	Received Calls	20
	Dialed Calls	20
	Inbox	50
	Outbox	20
	Drafts	10
Environmental	Scan Lists	64 (200 groups in each list)
	Operating Temperature	-25 ~ +65
	Storage Temperature	-40 ~ +85
	Humidity	ETS 300 019 (95%)
	Water and Dust Protection	IEC60529, IP67
	Drop, Shock & Vibration	MIL-STD- 810 C/D/E/ F/G

All specifications are subject to change without notice due to continuous development.

Accessories

								
Li-ion Battery (1800mAh) BL1806	Switching Power Adapter	Rapid Charger CH10A04	Spring Belt Clip BC19	Leather Strap RO04	Antenna (varies according to frequency bands)	Earbud with on-MIC PTT ESN10	D-earset with on-MIC PTT EHN12	Earpiece with On-MIC PTT & Transparent Acoustic Tube EAN16
								
3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige/BLACK)	Programming Cable (USB to serial port) PC36	Carrying Case (Leather)(Swivel) LCY003	Waterproof Remote Speaker Microphone SM18N3	Receive-only Earbud ESS07	Receive-only Earpiece with Transparent Acoustic Tube ESS08	Vehicle Adapter for Charger (Output:12V 1A) CHV09	Intelligent Multi-unit Charger (with LCD) MCA05	Multi-unit Rapid Charger MCA06

Pictures above are for reference only and may vary from actual products.



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