



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 with 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

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)

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
 - 12+ Languages (English, Simplified Chinese, Korean, Russian, Spanish, German, French, Farsi, Catalan, Malay, Arabic, Traditional Chinese (including Traditional Chinese display and phonetic input method))
 - Tri-color LED Indicator
 - Date and Time Display/ Calendar Display

Advanced Features

- ▶ Provides Java Application Platform
- ▶ WAP Browser*
- ▶ Over The Air Programming (OTAP)*
- ▶ GPIO Program*
- ▶ Circuit Mode Data*

User Safety

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

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

* Realized in Version 6.0



Specifications

General	Frequency Bands	350-400MHz/380-430MHz 410-470MHz/806-870MHz
	Dimensions (HxWxD)	127.5 x 54.5 x 35.5mm
	Weight	367g
	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 & Class B
	RX Static Sensitivity	-112dBm (typical -116dBm)
	RX Dynamic Sensitivity	-103dBm (typical -105dBm)
Environmental	Maximum Audio Power Output	1W
	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

Item	Low memory machine	High memory machine
Talk Groups - TMO	2048	3000
Talk Groups - DMO	1024	2000
Phonebook	1000	1000
Missed Calls	20	20
Received Calls	20	20
Dialed Calls	20	20
Inbox	50	400
Outbox	20	50
Drafts	10	50
Drafts -TMO	61	61
Folder -TMO	64×200 (200 groups in each list)	200×200 (200 groups in each list)
Folder -DMO	32×200 (200 groups in each list)	50×200 (200 groups in each list)

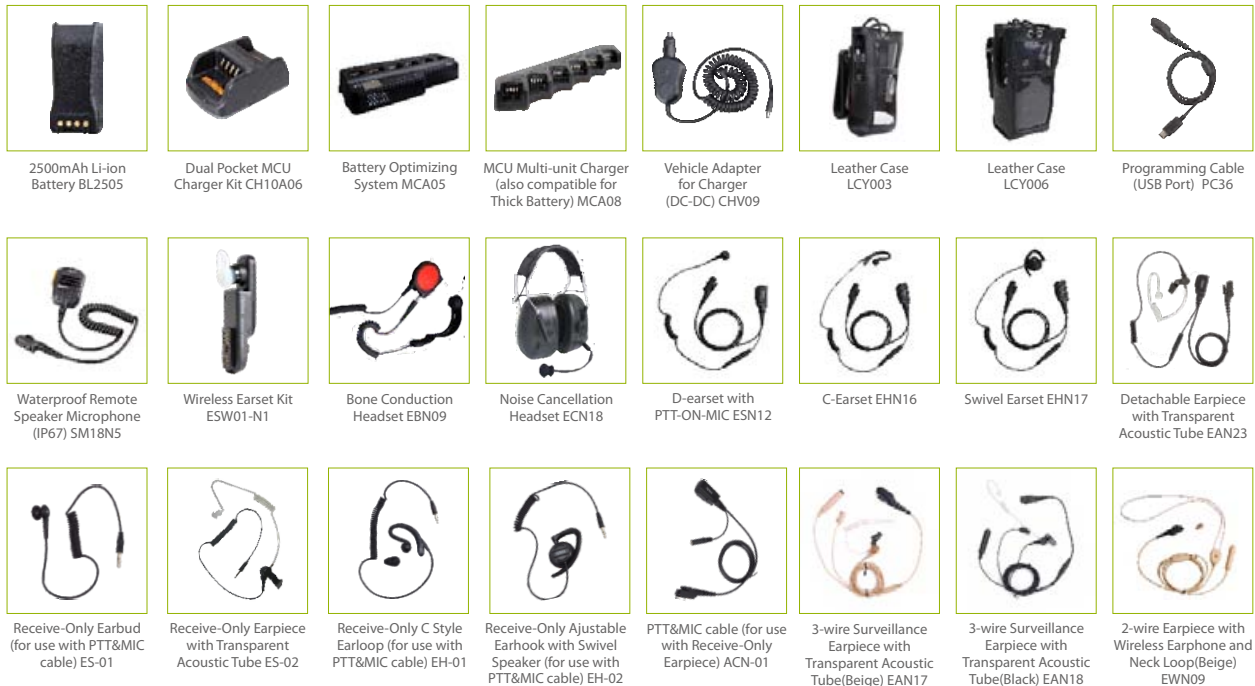
GPS	Sensitivity	-148dBm acquisition sensitivity -162dBm tracking sensitivity
	Accuracy	2.5m CEP
	Cold Start (Time to First Fix)	< 26s
	Hot Start (Time to First Fix)	< 1s

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

Standard Accessories



Optional Accessories



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



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