

Features

Voice Services

- ▶ Fallback Operation
- ▶ Energy economy
- ▶ Seamless cell re-selection
- ▶ Half-Duplex
 - Individual call
 - Group call
 - Broadcast call (TMO)
 - Open group call
 - DTMF
 - Gateway call (DMO)
 - Repeater call (DMO)
 - Phone call
 - PABX
 - PSTN
- ▶ Full-Duplex
 - Individual call
 - Phone call
 - PABX
 - PSTN
 - DTMF
- ▶ Emergency Call
 - Emergency group call to selected group
 - Emergency group call to pre-defined group
 - Emergency individual call
 - Emergency phone call(PABX/PSTN)
 - HOT MIC
 - Emergency Cycle
 - Configurable emergency priority
 - Location Information Sending (TMO)
 - Silent Emergency Call (TMO)
- ▶ Pre-emptive call
- ▶ Late entry
- ▶ DGNA
- ▶ Priority Group Scanning
- ▶ Talking Party Identification
- ▶ Multi-Network Selection
- ▶ Individual Call Restriction via Phonebook
- ▶ Group Change Voice Broadcast
- ▶ Quick change Scan Lists
- ▶ Callout
- ▶ CAD(Call Authorized by Dispatcher)*
- ▶ PTT Group lock
- ▶ BT



License Control

- ▶ DMO Repeater
- ▶ Tamper Proof solution

User Security

- ▶ One-key Emergency Call
- ▶ Man-Down
- ▶ Ambience Listening
- ▶ Radio User Assignment(RUA)
- ▶ Lone worker
- ▶ Protect user configuration data
- ▶ Keypad lock
- ▶ Alert for out of network coverage
- ▶ Alert for low battery

Security Service

- ▶ Authentication
 - MS Authentication by SwMI
 - Mutual Authentication
- ▶ Package Data User Authentication
- ▶ Air Interface Encryption
 - TEA1
 - TEA2
 - TEA3
 - TEA4
- ▶ Security Class
 - Class 1: Clear
 - Class 2: SCK
 - Class 3: DCK and CCK (Via OTAR)
- ▶ DMO SCK
- ▶ End to End Encryption
 - By Software (AES128 / AES256)
 - By SIM card
 - Voice Service / SDS Service
- ▶ Temporary Enable/Disable
- ▶ Permanently Disable
- ▶ PIN/PUK code access

Location Service

- ▶ GPS/GLONASS/Beidou
- ▶ Control Center Authentication by MS
- ▶ LIP protocol
 - Trigger Conditions (Configured via Air or CPS)
 - Emergency Call
 - Interval
 - Distance
 - Power On/Off
 - Status Message
 - Positioning Loss/Regain
- ▶ NMEA location reporting
- ▶ Time Synchronization and Adjustment
- ▶ Display the calling party's Relative direction & position
- ▶ Overspeed Alarm

DMO Repeater

- ▶ ETSI type 1A DMO Repeater for channel efficient operation
- ▶ Repeats DMO voice and tone signalling on selected talkgroup
- ▶ Repeats SDS and Status messaging on selected talkgroup
- ▶ Transmission of Repeater Presence Signal

Data service

- ▶ Short Data Service
 - SDS-1, 2, 3, 4, TL
 - Status message
 - Immediate text message (TMO)
 - Long text message (TMO)
 - One Touch/ Fast sending Status Message
 - Message Sending/Receiving during Call
 - SDS and Status via DMO Gateway
 - Immediate Status Display(TMO)

- ▶ Package Data
 - Single-slot
 - Multi-slot
- ▶ Peripheral Equipment Interface (PEI)
- ▶ AT command
- ▶ OTAP(Over The Air Programming)
- ▶ Status Message Solution
- ▶ WAP
- ▶ Circuit Mode Data

User Interface / Display

- ▶ Multi-language more than 16 languages
- ▶ Java Platform 2.0
- ▶ 23 programmable key: quick access to menu and configured functions
- ▶ Dedicated Emergency Key
- ▶ Multiple Dialing Methods: scroll dialing, dialing directly, alphabetic search, redial via call records, Dialing rules
- ▶ Two independent microphones
 - Top MIC used in half-duplex call
 - Bottom MIC used in full-duplex call
- ▶ Adjustable screen brightness
- ▶ User Profiles
- ▶ Display reverse
- ▶ Screen saver
- ▶ Customized Terminal Menu
- ▶ Time synchronization
 - With GPS time
 - With System time
- ▶ Configurable Maximal/minimum volume
- ▶ Input Method Editor
- ▶ Brand new menu Structure and style
- ▶ Programmable Keypad Lock

Specifications

General Specifications	Frequency Bands	380-430MHZ / 405-475MHZ 806-870MHZ
	Dimensions (HxWxD)	127.5 × 55 × 36.5mm
	Weight	374g (with battery and antenna)
	Battery	1800mAh Li-Ion battery
	Battery Life	>16hours
	Operating Voltage	7.4V
	LCD Color Display	1.8inch, 160*128pixels, 65536colors
	Talk Group-TMO	3000
	Talk Group-DMO	2000
	Inbox	400
User Interface	Outbox	50
	Drafts	50
	Scan Lists-TMO	200
	Scan Lists-DMO	50
	Status Messages	200
	Folder-TMO	200X200(200 groups in each list)
	Folder-DMO	50X200(200 groups in each list)
	RF Specifications	
	GPS Specifications	
	Environmental	

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

RF Specifications	
RF Channel Bandwidth	25KHz
RF Power Output	3W(1.8W For 806-870MHz)
RF Power Level Accuracy	± 2dB
RF Power Control	5steps of 5dB
Receiver Class	ETSI EN 392-2/396-2 Class A & Class B
RX Static Sensitivity	-112dBm(typical-116dBm)
RX Dynamic Sensitivity	-103dBm(typical-105dBm)
Audio Power Output	2W
GPS Specifications	
Sensitivity	≤-148dBm acquisition sensitivity ≤-162dBm tracking sensitivity
Accuracy	≤2.5m
Cold Start (Time to First Fix)	<27s
Hot Start (Time to First Fix)	<1s
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
Humidity	ETS 300 019 (95%)
Water and Dust Protection	IEC60529, IP67
Drop, Shock & Vibration	MIL-STD-810 G



PT580H Plus

TETRA Portable Terminal

Distinguished by IP67 compliance, 3W RF output (1.8W for 806-870MHz), clear digital voice, tamper proof protection, built-in BT and GPS positioning, the TETRA portable terminal PT580H Plus will enrich your communication experience.



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PT580H Plus

Highlights

Reliable Through Design

PT580H Plus 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 Plus will stand up to the toughest conditions and environment

High RF Output Power

PT580H Plus boasts a **3Watt transmit power**, effectively enlarging the workable coverage area, including basements and extending coverage indoors. The radio supports Open Loop Power Control which adjusts the actual transmit power in 5dB steps as needed

Exceptional Audio

A **newly added noise cancelling chip** gives PT580H Plus audio quality with unprecedented clarity. Voice can be broadcasted clearly even in very noisy environment to assure the key message is received accurately.

Comprehensive Security Protection

Tamper proof protection makes PT580H Plus more secure than ever before. All the key data which is stored in the radio is protected against security attacks.

Multi-satellite Location Service

Multi-satellite system location service lets PT580H Plus be used globally. PT580H Plus support **GPS, Glonass and Beidou location**.

New added features:



805-870 MHz DMO full band transmit and receive



BT Built-in BT



Repeater DMO Repeater type 1A

PT580H Plus

Ensure efficient critical communication

Patented Antenna

Centrally located integrated GPS antenna enhances GPS sensitivity to give excellent performance.

Multi-satellite location service support GPS, Glonass and Beidou location.

Separate Knob

Allow users to have Eyes-off, hands-on operation.

Large size color display Equipped with large-size TFT LCD clear display delivers you favorable accessibility even under strong unlight

High RF output

3W RF output power enlarges the coverage area effectively

Built-in BT

Allow wireless accessory adaptation.

Dustproof and Waterproof

IP67 guarantee usage in full of dust environment or exposure to water jet or even soak in 1m water after 30 minutes.

Security protection

Tamper proof protection for keys and encryption algorithm

Powerful audio output

2W audio power output ensure the voice transmitted clearly.

Enhanced audio quality

new added noise cancelling chip ensure voice broadcasted clearly even in very noisy environment

Ergonomic Keys

With silica gel key materials, resilient touch experience brings easy operation.

Rugged design

Withstand the tough highly accelerated lift test and strict Military standard G test, PT580H Plus ensure outstanding performance in tough use.



Work with terminal in an optimal and most desirable way, our comprehensive PT580H Plus accessories portfolio guarantees the easy, comfortable and quality experience. The basic standard accessories of PT580H Plus include antenna, battery, charger, power supply, belt clip and hand strap.

Standard Accessories



PT580H Plus

Versatile Accessories



You can expect excellent audio performance through our robust and reliable accessory series. Audio accessories are designed to provide clear voice in noisy environment.

Rugged connector keeps connection firm. Remote speaker microphone has same IP67 protection as terminal is adapt to wet, muddy or other hash environment. In addition, wireless earpiece release users' hand and offer user a best way to avoid the problem of tangled wires while attending to special tasks.