Features

Voice Services

- Fallback Operation
- ▶ Individual call
- Group call
- ► Broadcast call (TMO)
- Open group call
- ▶ DTMF
- Gateway call (DMO)

- ► Repeater call (DMO)
- Phone call
- PABX PSTN

- ▶ DTMF
- Emergency Call
- Emergency group call to selected group/ group call to pre-defined group/individual call/
- HOT MIC
- Configurable emergency priority
- Silent Emergency Call (TMO)

- ▶ Pre-emptive call
 - Late entry DGNA
 - ► Group Scanning
 - Individual Call Restriction via Phonebook

► SDS template

Route Trace

Drive Test

- ► Notification Talkgroup

Gateway –

- ► Group voice calls from DMO to TMO
- ► Group voice calls from TMO to DMO
- ► Transmission of Gateway Presence Signal

- ▶ SDS messaging from TMO to DMO
- ▶ Individual call from DMO to TMO

- ► Emergency Individual call from TMO to DMO

- Ambience Listening
- ► Radio User Assignment (RUA)
- Lone worker
- ► Emergency Protect Mode
- Call out

Security Service

- Authentication
- ► Package Data User Authentication
- Air Interface Encryption Security Class: Class 1/2/3
- ► End to End Encryption
- By Software By SIM card
- Voice Service / SDS Service ► Temporary Enable/Disable
- Permanently Disable

GPS 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
- Routetrace

- phone call(PABX/PSTN)
- Emergency Cycle
- Location Information Sending (TMO)

- ► Talking Party Identification
- ► Group Change Voice Broadcast
- CAD(Call Authorized by Dispatcher)
- ▶ RT
- ► Favorite Folder

▶ ETSI type 1A DMO Repeater for channel efficient operation

▶ Repeats SDS and Status messaging on selected talkgroup

► Transmission of Repeater Presence Signal

Participate & Initiate call in repeater mode

▶ Repeats DMO voice and tone signalling on selected talkgroup

Work Order

▶ OTAP

DMO Repeater -

- ► Emergency group call from DMO to TMO
- ► Emergency group call from TMO to DMO
- ► Call Pre-emption (in either direction)
- ▶ SDS messaging from DMO to TMO

- ► Individual call from TMO to DMO
- ► Emergency Individual call from DMO to TMO

User Security

- Status message • Immediate text message (TMO)

Data service

► Short Data Service

SDS-1, 2, 3, 4, TL

License Control

DMO Repeater

Gateway

► TEA2

► E2EE

- Long text message (TMO)
- Package Data
- Single-slot
- Multi-slot
- ▶ Peripheral Equipment Interface (PEI) AT command
- ► OTAP (Over The Air Programming)
- Status Message Solution WAP browser
- ► Circuit Mode Data
- ▶ Short Data Template Work Order

Telemetry

User Interface / Display

- ▶ Multi-language: more than 16 languages
- Java Platform 2.0
- ▶ 25 programmable key: quick access to menu and configured functions
- ▶ Multiple Dialing Methods: scroll dialing, dialing directly, alphabetic search, redial via call records, Dialing rules
- User Profiles
- Display reverse ► Customized Terminal Menu
- Customized Tone
- Time synchronization
- With GPS time With System time
- ► Configurable maximal/minimum volume
- Accessory Interface

Call Back

- Independent Audio Export
- Emergency Alarm
 Ignition Sense AT Command Public Address
- External palm microphone
- ► Input Method Editor

Hardware Options

Yes: Available No: Not Available

	MT680 Plus(B)	MT680 Plus(E)	MT680 Plus(S)
BT	No	No	Yes
Gateway	No	No	Yes
GPS	No	Yes	Yes
E2EE	No	Yes	Yes

• B: Basic Version

E: Excecutive Version

S: Specialized Version

Specifications

General					
Frequen	cy Bands	320-380MHz 380-430MHz 405-475MHz 806-870MHz			
	Standard Mount	70 x 184 x 186mm			
Dimensions (H*W*D)	Remote Mount	70 x 184 x 66mm(front panel) 70 x 184 x 177.6mm(main unit)			
	Desktop Mount	150 x 220 x 291mm			
Weight	Standard Mount	1853g			
Operating	Standard Mount Remote Mount	10.8V-15.6V DC (Typical value 13.2V DC)			
Voltage	Desktop Mount	10.8V-15.6V DC (Typical value 13.2V DC) 100-240V AC/50-60Hz			
RF Specifications					
RF Chani	nel Bandwidth	25KHz			
RF Po	wer Output	10W			
RF Power	Level Accuracy	± 2dB			
Rece	eiver Class	Class A & B			
RX Stat	ic Sensitivity	-116dBm(Typical: -118dBm)			
RX Dyna	mic Sensitivity	-106dBm(Typical:-108dBm)			
	Audio Specifications				
Maximum Au	dio Power Output	8W (internal SPK)			
Rated Audio I	Power Output	4W (Internal SPK)			

Item	Capacity			
Talk Groups - TMO	3000			
Talk Groups - DMO	2000			
Phonebook	1000			
Missed Calls	20			
Received Calls	20			
Dialed Calls	20			
Inbox	400			
Outbox	50			
Drafts	50			
Scan Lists –TMO	61			
Folder-TMO	200×200 (200 groups in each list)			
Folder-DMO	50×200 (200 groups in each list)			
Environmental				
Operating Temperature	-30℃ ~ +60℃			
Storage Temperature	-40℃ ~ +85℃			
Humidity	ETS 300 019 (95%)			
Water and Dust Protection	IP54 (main unit) IP67(front panel); IEC60529			
Drop, Shock & Vibration	MIL-STD-810 G;ETS 300 019-1-5 5M3			
GPS				
Consitivity	≤-146dBm acquisition sensitivity			
Sensitivity	≤-165dBm tracking sensitivity			
Location Accuracy	2.5m CEP			
Cold Start (Time to First Fix)	< 35s			
Hot Start (Time to First Fix)	<1s			

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





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MT680 Plus

TETRA Mobile Terminal MT680 Plus(B) / MT680 Plus(E) / MT680 Plus(S)

Multiple hardware options including basic version, excecutive version and specialized versio. Distinguished by built-in 4W powerful speaker, remote mount panel IP67 compliance, 10W RF power output, clear digital voice, built-in BT and GPS positioning, the TETRA mobile terminal MT680 Plus will enrich your communication experiences.







www.hytera.com



MT680 Plus

Highlights

Reliable Through Design

Mt680 Plus is designed to comply with ETSI TETRA Standard, MIL-STD- 810G, IP67 Dust & Water Protection (remote mount panel) and Hytera ALT Test simulating over years usage. These tests ensure MT680 Plus stand up to the toughest conditions and environment.

High RF Output Power

MT680 Plus boasts a 10 Watt transmit power, effectively enlarging the workable coverage, including basements and extending coverage indoors. The radio also supports automatic RF power control with 5dB per step, according to the signal strength.

Exceptional Audio

A newly added noise cancelling solution gives MT680 Plus audio quality with unprecedented clarity. Voice can be broadcasted clearly even in very noisy environment to assure the key message is received accurately. Hands free duplex call release hands operation and brings true convenience. Powerful(4W) internal speaker, decrease the workload of installing an additional external speaker.

Comprehensive Security Protection

Support authentication, AIE with full 4 algorithms TEA1,TEA2,TEA3,TEA4 and E2EE, MT680 Plus brings customer comprehensive security protection.

Multi-option Location Service

MT680 Plus support GPS, Glonass and Beidou location. Multi-option system location service lets MT680 Plus be used globally.

Easy Operation

MT680 Plus employs a 2-in-1 large knob to adjust the channel and volume quickly. Large 260K color TFT LCD enables the access of pertinent information with ease, even under bright sunlight.











MT680 Plus

Ensure efficient critical communication

Support GPS, Glonass

2-in-1 large knob makes channel switch and volume adjustment quick.

Remote mount panel is IP67 in full of dust environment or exposure to wet

DMO Gateway and Repeater

DMO coverage improved.

Withstand the tough highly accelerated life test and strict Military standard G test, rugged quality ensure outstanding performance in tough use.

11111111

MT680 Plus supports dash mount, desktop mount, remote mount.

Built-in 4W powerful speaker assures the clear and loud voice even without the external speaker.

Support authentication, E2EE and AIE with full 4 algorithms TEA1, TEA2, TEA3, TEA4.

Allow wireless accessory adaptation.

With silica gel key experience brings easy operation

New added noise cancelling even in very noisy









MT680 Plus Versatile Accessories

Work with terminal in an optimal and most desirable way, our comprehensive MT680 Plus accessories portfolio guarantees the easy, comfortable experience. The basic standard accessories of MT680 Plus include palm microphone, tube fuse, mounting bracket, power cord.

Standard Accessories



Mounting Bracket Power Cord







Kevpad

Heavy Duty Noise-

canceling Headset Microphone





Optional

Accessories



Switch







IP67 Remote Control Kit Style Handset



Ring PTT

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