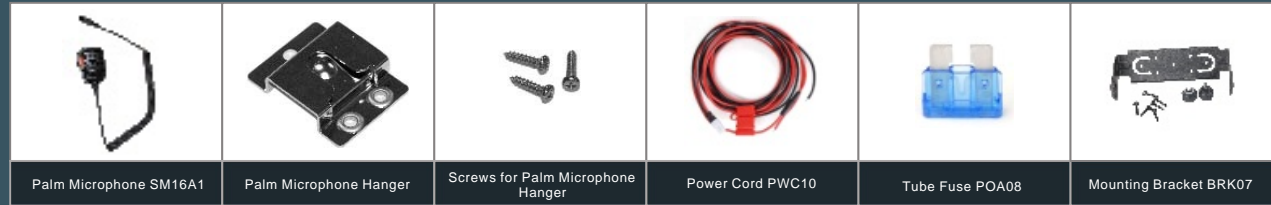
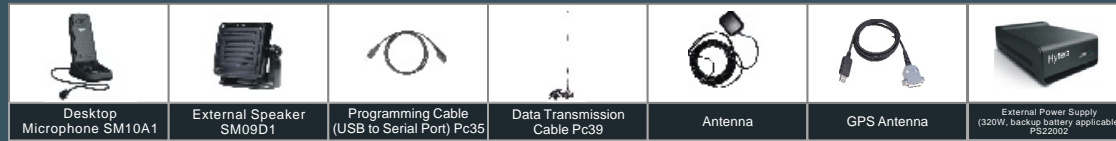


### Standard Accessories



### Optional Accessories



### Specifications

General Specifications	
Dimensions (H×W×D) (with front panel)	70×184×201mm
Weight (with front panel)	1.9kg
Operating Voltage	10.8V-15.6V(Typical 13.2V)
Talk Groups- TMO	2048
Talk Groups- DMO	1024
Phonebook	512
Scan Lists	20 (20 groups in each list)
LCD Display	320X240pixels,260K Colors
Environmental Specifications	
Operating Temperature	-25°C -- +65°C
Storage Temperature	-40°C -- +85°C
Humidity	ETS 300 019 (95%)
Water and Dust Protection	IP54 (main unit) IP67 (front panel) IEC60529 or GB-4208-93
Drop, Shock & Vibration	MIL-STD-810 C/D/E/F

RF Specifications	
Frequency Range	350-400 MHz 380-430 MHz 450-470 MHz 806-870 MHz
Channel Spacing	25 KHz
RF Power Output	10W
Receiver Class	ETSI EN 392-2/396-2 Class A
RX Static Sensitivity	-112 dBm (typical -116 dBm)
RX Dynamic Sensitivity	-103 dBm (typical -105dBm)
Audio Power Output	4W (internal) 10W (external)
GPS Specifications	
GPS Antenna	High sensitivity omni-directional receiving antenna
Sensitivity	≤-154dBm
Accuracy	≤15m

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



# MT680

## TETRA Mobile Radio



[www.hytera.cn](http://www.hytera.cn)

Hytera Communications Corporation Limited

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## Functions

### • Operation Mode

- ▶ ITrunking Mode Operation (TMO): communications over TETRA network (half-duplex and full duplex mode)
- ▶ IDirect Mode Operation (DMO): direct communications between terminals without network intervention (half-duplex mode)

### • Voice Services

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>▶ Group Call</li> <li>▶ Standard Group Call</li> <li>▶ Priority Group Call</li> <li>▶ Emergency Group Call</li> <li>▶ Receive Broadcast Call (TMO)</li> <li>▶ Late Entry</li> <li>▶ Talking Party Identification</li> <li>▶ Announcement Talk Group call</li> </ul> | <ul style="list-style-type: none"> <li>▶ Individual call</li> <li>▶ Standard Individual Call - Half Duplex</li> <li>▶ Standard Individual Call - Full Duplex (TMO)</li> <li>▶ Priority Individual Call</li> <li>▶ Calling Line Identification Presentation</li> <li>▶ Pre-emption Priority Call - PPC</li> </ul> | <ul style="list-style-type: none"> <li>▶ Telephone Call (PSTN/PABX)</li> <li>▶ Full Duplex Operation</li> <li>▶ DTMF</li> <li>▶ Calling Line Identification Presentation</li> <li>▶ Pre-emption Priority Call - PPC</li> </ul> |
|--|--|--|

### • Security Services

- ▶ Authentication
- ▶ Stun/Revive
- ▶ Air Interface Encryption
  - TEA 1
  - TEA 4
- ▶ E2EE (End-to-End Encryption) Security Services ★
  - E2EE encryption module with full tamper-protection
  - Multiple Algorithm support
- ▶ PIN/PUK Code Access
- ▶ Security Class 1, 2 (3 ★)

### • User Safety

- ▶ Dedicated Emergency Button
- ▶ Talk Group Lock
- ▶ Keypad Lock

### • User Interface Features

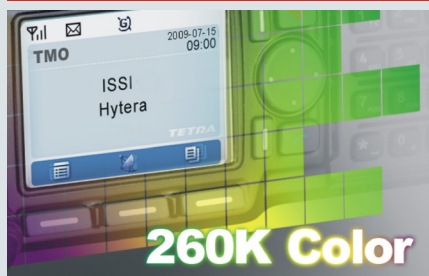
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>▶ 16 programmable key for quick access to function</li> <li>▶ Multi-function Talk Group Selector and Volume Control Knob</li> <li>▶ 4-way Navigation Keys</li> <li>▶ Dedicated Emergency Button</li> <li>▶ Call Log: missed/received/dialed lists</li> <li>▶ External Palm Microphone</li> <li>▶ Adjustable Display Contrast</li> <li>▶ 2 Languages (English, Simplified Chinese)</li> <li>▶ Selectable Profiles</li> <li>▶ GPS Location Service                     <ul style="list-style-type: none"> <li>Built-in high sensitivity GPS</li> <li>Fully integrated single-chip GPS receiver</li> <li>Full programmable position update triggers</li> <li>Position information transmission during Emergency Alarm</li> <li>Time Synchronization and Calibration</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>▶ Screen Invert</li> <li>▶ GPS (optional)                     <ul style="list-style-type: none"> <li>Built-in high sensitivity GPS</li> <li>Fully integrated single-chip GPS receiver</li> <li>Two-in-one antenna</li> <li>Full programmable GPS information transmitting mode</li> <li>Position information transmission during Emergency call</li> <li>Time Synchronization and Calibration</li> </ul> </li> <li>▶ Bluetooth (optional)★                     <ul style="list-style-type: none"> <li>Built-in Bluetooth and antenna</li> <li>Wireless connection to PTT and audio devices</li> <li>Automatic search and recognition of valid devices</li> </ul> </li> </ul> |
|--|---|

### • Data / Messaging Services

- ▶ Short Data Service (SDS) -- 1, 2, 3, 4, TL
- ▶ Status Message / Text Message
- ▶ New text/status message notification during calls
- ▶ Circuit Data Service ★
- ▶ Packet Data Service ★
- ▶ Peripheral Equipment Interface (PEI)

## Highlights

### Rugged, Durable Design and Easy Operation



The MT680 rugged design is enhanced with a large 260K color TFT LCD enabling the access of pertinent information with ease, even under bright sunlight. User-friendly interface, keypad entry, and powerful (4W) speaker provides excellent operation and communication experience.

### Exceptional Quality and Flexible Installation



The MT680 flexibility allows for virtually any install location. You may integrate the front panel with the main unit, or install it separately at a place where you can easily access operation controls. The optional front panel is IP67 compliant, capable of delivering you exceptional performance in extreme conditions.

### Versatile Services and Functions



The MT680 supports all TETRA voice and data services. With its built-in GPS\* feature, information about your location will no longer be an issue. Optional encryption and recording features will bring you more benefits. The expansion port is another advantage, enabling you to customize your radios feature.

### Instant and Seamless Communication



High transmit power (10W) enables you to reach team members long distances. The MT680 enables quick access to TETRA networks and roaming services. Additionally, the MT680 provides powerful interoperability with base stations and terminals of different manufacturers.

