



MT680

TETRA mobile terminal

MT680 is the mobile terminal for vehicles by Hytera for TETRA users of all sectors. MT680 stands out for high reliability, easy operation and ruggedness in all cases of application.



Radio

MT680

TETRA mobile terminal



Highlights

Robust, durable constructions and easy handling

The robust design of MT680 is topped by a large TFT-LCD display with 260,000 colours which allows access to all information without any problems even in bright sunlight. The user-friendly user interface, entry via keypad and an efficient 4-Watt speaker ensure an excellent operation and handling and a high quality of communication.

Extreme quality and flexible installation

Thanks to its high flexibility MT680 can be practically installed everywhere. You can either integrate the front panel into the main unit or you can install it separately wherever the control elements are easily accessible. The front panel is protected dust-proof and water-proof according to IP67 and is extremely efficient even in critical situations.

Versatile services and functions

MT680 supports voice and data services of the TETRA standard. Thanks to the integrated GPS function a precise positioning is possible any time. The optional encryption* and the recording function offer additional important advantages. Moreover, you can adjust the device to your individual requirements using the expansion ports.

Immediate and direct communication

Thanks to the high 10-W-transmitting power you can reach your team colleagues even over large distances. MT680 offers quick access to the TETRA network and to the roaming services. Moreover, the device is compatible with the base stations and other mobile stations of different manufacturers.



Functions

Operating mode

- Trunked radio mode (TMO): Communication via the TETRA radio network (semi-duplex or duplex mode)
- Direct mode (DMO): Direct communication between the devices without using the radio network (semi-duplex)

Voice services

Group call

- Group call
- Group call with defined priority
- Emergency group call
- Broadcast call (TMO)
- Broadcasting
- Talking Party Identification
- Group call for broadcasts

Individual call

- Individual call (semi-duplex)
- Individual call duplex (TMO)
- Individual call with defined priority
- Display of the identification of the calling party
- Calls with pre-emptive priority – PPC

Calls to telephone networks (PSTN/PABX) (TMO)

- Full duplex operation
- DTMF
- Display of the identification of the calling party
- Calls with pre-emptive priority – PPC

Security services

- Authentication
- Sleep mode/monitoring mode
- Air interface encryption (TEA1, TEA2 *, TEA3, TEA4)
- End-to-end encryption (E2EE)
- Access with PIN-/PUK-code
- Safety class 1, 2 (3*)

Safety functions for the user

- Emergency button
- Call barring
- Key Lock
- Configuration protection

Functions of the user interface

- 16 programmable keys for direct access to the individual functions
- Multi-function group selector switch and volume control
- 4-ways navigation key
- Emergency button
- Call log: List of non-answered and answered calls and of selected call numbers
- Flexible dialing (list search, direct dialing, alphabetic search, redialing)
- External hand-held microphone
- Adjustable display contrast
- 7 languages available (German, English, French, Spanish, Russian, Simplified Chinese, Korean)
- Several profiles
- GPS location (optional)
 - Completely integrated individual chip GPS receiver
 - Completely programmable position updating
 - Transmission of the position data on emergency call
 - Time synchronization and calibration

Data / message services

- Short data service (SDS) – 1, 2, 3, 4, TL
- Status message/Text message
- Notification on new text /status messages during the calls
- Packet data service *
- Application interface (PEI)



Technical Data

General data	
Dimensions (H x W x D) (with front panel)	70 x 184 x 201 mm
weight (with front panel)	1.9 kg
Operating voltage	10.8 – 15.6 V (standard 13.2V)
Call group number – TMO	2048
Call group number – DMO	1024
Address book	512
Lists for active groups (Scan lists)	20 (20 groups per list)
LCD display	320 x 240 Pixel, 260.000 colours

Ambient data	
Operating temperature range	-25 °C at +65 °C
Storage temperature range	-40 °C at +85 °C
Relative humidity	ETS 300 019 (95%)
Protection against dust and moisture	IP54 (main unit) IP67 (front panel) IEC60529 or GB-4208-93
Shock and vibration resistance	MIL-STD-810 C/D/E/F

RF data	
Frequency ranges	350 – 400 MHz / 380 – 430 MHz 410 – 470 MHz / 806 – 870 MHz
Channel spacing	25 kHz
RF transmitting power	10 W
Receiver class	ETSI EN 392-2 / 396 class A
RX static sensitivity	-112 dBm (standard -116 dBm)
RX dynamic sensitivity	-103 dBm (standard -105 dBm)
Audio power output	4W (internal) 10W (external)

GPS data	
GPS antenna	omni-directional antenna
Sensitivity	≤ -154 dBm
Precision	≤ 15 m

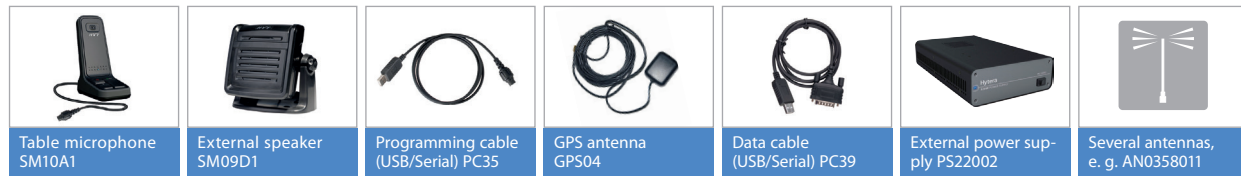
All technical indications were tested according to the corresponding standards. Subject to change on the basis of continuous development.

The illustrations shown above are only for reference purposes. The products themselves may vary from these representations.

Standard accessories



Optional accessories (excerpt)



Your Hytera partner:



For more information visit: www.hytera.de/en

Contact us when you are interested in buying Hytera products, sales partnership or application partnership: [✉ info@hytera.de](mailto:info@hytera.de)



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Encryption features are optional and require a separate configuration, subject to German and European export regulations.

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