

MT680 Plus

TETRA mobile radio

Versatile

The MT680 Plus offers various operating modes, such as an ETSI DMO gateway and DMO repeater mode for extending the range of application of connected TETRA users.

The right radio for every user

The MT680 Plus is available in three different versions (B, E and S). The S version supports all available hardware and software functions, such as GPS and Bluetooth. The MT680 Plus is available in desktop, vehicle and remote mount versions.

Immediate and direct communication

Thanks to the high transmitting power of 10 W, you can reach your team colleagues even over large distances. The MT680 Plus offers fast access to the TETRA mobile radio network and the roaming services.

Excellent audio quality

The MT680 Plus contains an audio chip with noise cancellation. Users who require clear radio communication in loud environments benefit from crystal clear audio quality and improved intelligibility.



Technical data MT680 Plus

Variants						
	Bluetooth	GPS	RTC	E2EE	DMO-Gateway	DMO Repeater
MT680 Plus B (Basic)	No	No	No	No	No	License
MT680 Plus E (Executive)	No	Yes	Yes	License	No	License
MT680 Plus S (Specialized)	Yes	Yes	Yes	Yes	License	License

General data	
Dimensions (H x W x D) (Standard Mount)	70 x 184 x 186 mm
(Remote Mount front panel)	70 x 184 x 66 mm
(Remote Mount main unit)	70 x 184 x 177.6 mm
(Desktop Mount)	150 x 220 x 291 mm
Weight (Standard Mount)	1.9 kg
Operating voltage	10.8 – 15.6 V (standard 13.2 V)
Call group number (TMO)	6000
Call group number (DMO)	4000
Phonebook	2000 entries
Group folders – TMO (use for scanning, scan lists)	200 (200 groups per list)
Group folders – DMO	50 (200 groups per list)
Number of short messages (SDS) (inbox, outbox, drafts)	400 / 50 / 50
Number of status messages	200
LCD display	320 x 240 pixels, 260,000 colors, 2.8 inches
Audio power output	4 W (internal), 10 W (external, optional)
Programmable keys	20

Environmental conditions	
Operating temperature range	- 30 °C to + 60 °C
Storage temperature range	- 40 °C to + 85 °C
Relative humidity	ETS 300 019 (95 %)
Protection against dust and moisture	IP54 (radio unit); IP67 (control unit) IEC60529
Shock and vibration resistance	MIL-STD-810 G

Radio characteristics	
Frequency ranges	320 – 380 MHz 380 – 430 MHz 405 – 475 MHz 806 – 870 MHz
Channel spacing	25 kHz
Transmitting power	10 W/40 dBm (class 2) 3 W/35 dBm (class 3) 1 W/30 dBm (class 4) 0.3 W/25 dBm (class 5) OLPC - Open Loop Power Control
Receiver class	ETSI EN 392-2/396-2 class A & B
Static receiver sensitivity	-116 dBm (standard -118 dBm)
Dynamic receiver sensitivity	-106 dBm (standard -108 dBm)

GPS (optional)	
GPS antenna	External antenna
Sensitivity	≤ -146 dBm acquisition sensitivity ≤ -165 dBm tracking sensitivity
Number of channels/satellites	12

Bluetooth (optional)	
Integrated Bluetooth	R4.0 module
Bluetooth LE support	Yes

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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