

PT580H Plus

TETRA handheld radio



Full functionality

With a protection class of IP68, a high-resolution color display, an output rating of up to 3 W, clear digital voice quality, man down function and GPS localization, the PT580H Plus handheld radio provides you with highest quality TETRA communication in every situation.

Versatile operating modes

In addition to direct mode operation (DMO) and trunked mode operation (TMO), the PT580H Plus supports operation as an ETSI type 1A DMO repeater. Using the radio in this operating mode increases the range of application of connected TETRA users enormously.

Immediate and direct communication

The PT580H Plus provides quick access to the TETRA radio network. It was developed according to the regulations of the ETSI TETRA standard and is therefore compatible with infrastructures and terminals from various manufacturers.

Technical data PT580H Plus

Variants							
	Bluetooth	Man Down	GPS	RTC	E2EE	Vibration	DMO Repeater
PT580H Plus B (Basic)	No	No	No	No	No	Yes	License
PT580H Plus E (Executive)	No	No	Yes	Yes	License	Yes	License
PT580H Plus S (Specialized)	Yes	Yes	Yes	Yes	Yes	Yes	License

General data	
Frequency ranges	380 – 430 MHz 405 – 475 MHz 806 – 870 MHz
Dimensions (H x W x D) (with standard battery, without antenna)	127.5 x 54.5 x 39.5 mm
Weight (without battery, without antenna)	237 g
Operating voltage	7.4 V
Battery (lithium-ion battery)	1800 mAh (standard battery) 2500 mAh (opt. high-performance battery)
Battery service life (5/5/90 duty cycle)	> 20 hours (standard battery) > 22 hours (2000 mAh battery) > 27 hours (2500 mAh battery)

User interface	
LCD display	160 x 128 pixels, 65,000 colors, 1.8 inches
Call group number – TMO	6000
Call group number – DMO	4000
Phonebook	2000 entries
Group lists – TMO (use for scanning, scan lists)	200 (200 groups per list)
Group lists – DMO	50 (200 groups per list)
Number of short messages (SDS) (inbox, outbox, drafts)	400 / 50 / 50
Number of status messages	200
Programmable keys	19

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	IEC60529 IP68
Shock and vibration resistance	MIL-STD-810 C / D / E / F / G

Radio characteristics	
Channel spacing	25 kHz
Transmitting power	up to 3 W (adjustable) / max. 1.8 W at 806 – 870 MHz
Transmitting power accuracy	±2 dB
Transmitting power control	Five steps, each of 5 dB
Receiver class	ETSI EN 392-2/396-2 class A & class B
Static receiver sensitivity	-116 dBm (typically -118 dBm) -115 dBm (typically -116 dBm) (800 Mhz)
Dynamic receiver sensitivity	-107 dBm (typically -109 dBm) -106 dBm (typically -107 dBm) (800 Mhz)

GPS (optional)	
GPS accuracy	≤ 2.5 m
Sensitivity	≤ -146 dBm receiving sensitivity ≤ -165 dBm signal tracking sensitivity
Time to first fix (TTFF)	< 35 seconds (cold start) < 1 seconds (warm start)

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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