

Standard Accessories

Li-Ion Battery Power Adapter MCU High-rate Charger Belt Clip Leather Strap Antenna

Optional Accessories



Picture shows are for reference only and may vary from actual products.

Specifications

General	
Frequency Range	VHF: 136-174MHz UHF: 1-400-470MHz DFRS: 3.50-400MHz
Channel Capacity	1024
Zone Capacity	64 (each with a maximum of 16 channels)
Channel Spacing	25/20/12.5KHz
Operating Voltage	7.4V (reel)
Battery	2000mAh(Li-Ion)
Battery Life	Analog: Above 10.5 Hours Digital: Above 14 Hours
Frequency Stability	± 1.5ppm
Antenna Impedance	90Ω
Dimensions (HxWxD)	12.5x55x71mm (4.9x2.2x1.5inches)
Weight	355g (0.78lb)
Front Case	PC
LCD Display	160° 128 pixels, 65536 colors 1.8 inch, 4 rows

Receiver	
Sensitivity (Analog)	0.3 μV (12dB SINAD) 0.22 μV (Typical) (12dB SINAD) 0.4 μV (120dB SINAD)
Sensitivity (Digital)	0.3 μV (BER=5%)
Selectivity	60dB @ 12.5 kHz / 70dB @ 20/25 kHz TIA-603 ETSI
Intermodulation	70dB @ 12.5/20/25 kHz ETSI
Spurious Response Rejection	65dB @ 12.5/20/25 kHz ETSI
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	<3%
Audio Response	+1~3dB
Conducted Spurious Emission	<-37dBm

GPS (For PD782G only)	
TTFF (Time to First Fix) Cold Start	<3 minute
TTFF (Time to First Fix) Hot Start	<15 seconds
Horizontal Accuracy	<10 meters

Transmitter	
RF Power Output	VHF High Power: 5W UHF: 4W UHF1/UHF3 High Power: 5W UHF1/UHF3 Low Power: 1W
FM Modulation	11K @ 12E @ 12.5 kHz 14K @ 12E @ 20 kHz 16K @ 12E @ 25 kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW
Modulation Limiting	30dBm/10Hz 30dBm/50Hz
FM Noise	± 3.5dB @ 12.5 kHz ± 5.0dB @ 20 kHz ± 5.5dB @ 25 kHz
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25 kHz
Audio Response	-1~+3dB
Audio Distortion	<3%
Digital Protocol	AMBE++ or SELP ETS: T5102.361-1, 2, 6.3

Environmental Specifications	
Operating Temperature	-30°C ~ +60°C
Operating Temperature Rise	-40°C ~ +65°C
ESD	IEC61000-4-2 (level 4) 8kV (contact) 15kV (air)
American Military Standard	MIL-STD-810 C/D/E/F
Dust & Water Intrusion	IP57 Standard
Humidity	Per MIL-STD-810 C/D/E/F Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Applicable Military Standards

Part No.	100C		810D		810E		810F	
	Method	Procedure	Method	Procedure	Method	Procedure	Method	Procedure
Shock	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Vibration	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Temperature	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Humidity	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Drop	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Impact	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Crash	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Flammability	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Electromagnetic Interference	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1
Electromagnetic Compatibility	502.1	1.1	502.2	1.1	502.3	1.1	502.4	1.1



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PD782/PD782G

Versatile Digital Portable Two-Way Radio



As a product built to the DMR standard, PD782/782G (PD782G is the model with GPS) is endowed with ergonomic design, all-round digital functions and remarkable quality to refresh your experience and enable you to be responsive to emergent situations.

- Large-size High-definition Transflective Color Display
- Superior Digital Voice



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Higher Efficiency Richer Experience



- ### Main Functions >>
- ▶ **Dual Modes (Analog-Digital)**
PD782/782G can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.
 - ▶ **Versatile Voice Calls**
Intelligent signaling of PD782/782G supports various voice call types, including Private Call, Group Call and All Call.
 - ▶ **Vibrate**
This feature is helpful in alerting you to reception of any voice or message under noisy or low-volume conditions.
 - ▶ **GPS**
PD782G supports viewing of GPS positioning information and sending of GPS text message.
 - ▶ **IP Service***
PD782/782G allows multiple IP functions if connected with a PC via IP address.
 - ▶ **Various Analog Signaling Types**
PD782/782G supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*), providing higher function expansion capacity.
 - ▶ **Multiple Languages**
PD782/782G supports 11 languages (English, Simplified Chinese, Traditional Chinese, German, Spanish, French, Italian*, Polish, Russian, Portuguese* and Turkish), allowing you to select as per your needs.
 - ▶ **Software Upgradable**
With this capability, you can enjoy further features without buying a new machine.
- * Indicates functions available in later version.

Product Features >>



Ergonomic Design

The large-size color display allows good visibility even under extremely strong light. The globally patented industrial design and antenna design ensure convenient operation and remarkable GPS performance.

Reliable Quality

PD782/782G is strictly compliant with MIL-STD-810 C/D/E/F and IP57 standards, ensuring outstanding performance even under harsh environments.

Superior Voice

With the combined application of narrowband codec and digital error-correction technologies, PD782/782G is capable of ensuring you superior voice under noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes your voice. With a built-in 1W speaker, PD782/782G ensures clear and crisp voice communication.



Durable Battery

Compared with an analog radio, PD782/782G can obtain an extra 40% operation time.

Higher Spectrum Efficiency, Higher Channel Capacity

Benefiting from the TDMA technology, PD782/782G allows twice the channels based on the same spectrum resource. This is a big help to relieve the stress of increasing shortage in spectrum resource.

Dual-slot Pseudo Trunking

With this feature, the free slot can be allocated to a member that needs to communicate, effectively enhancing frequency efficiency and allowing you to communicate timely under emergent situations.



Secure Communication

Besides the intrinsic encryption of the digital technology, PD782/782G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, PD782/782G features rich data services and selectable functions such as Message, Scan, Emergency, Man Down (optional), Auto Registration*, High-Speed Data Transmission* and Lone Worker*.

Further Development Port

The reserved port in PD782/782G allows users or any third party to further develop other helpful functions (Message, GPS, Call Control and Telemetry).

* Indicates functions available in later version.

Industrial Design Features >>

- Two knobs with the antenna in the middle facilitate Smooth eyes-off operation.
- Free of operation fatigue thanks to dual-color injection molding.
- Comfortable operation with big push-buttons.
- Covert speaker with quality audio and smart look.
- Integrated GPS antenna.
- Clear status indication with tri-color LED.
- Large-sized High-definition color LCD display enables you to access your desired information with ease even under bright sunlight.
- Compliant with MIL-STD-810 C/D/E/F and IP57 standards.