

Standard Accessories

Li-Ion Battery	Power Adapter	MCU Rapid-rate Charger	Belt Clip	Leather Strap	Antenna
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Optional Accessories



Pictures above are for reference only and may vary from actual products.

Specifications

General		Transmitter		Environmental Specifications	
Frequency Range	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz	RF Power Output	VHF High Power:5W VHF Low Power:1W UHF1/UHF3 High Power:4W UHF1/UHF3 Low Power:1W	Operating Temperature	-30°C ~ +60°C
Channel Capacity	1024	FM Modulation	11KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 16KΦF3E @ 25 kHz	Operating Temperature	-40°C ~ +85°C
Zone Capacity	64 (each with a maximum of 16 channels)	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW	IEC 61000-4-2 (level 4)	IEC 61000-4-2 (level 4)
Channel Spacing	25 /20/12.5 KHz	Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz	ESD	8kV(contact) 15kV(air)
Operating Voltage	7.4V (rated)	Modulation Limiting	± 2.5kHz @ 12.5 kHz ± 4.0kHz @ 20 kHz ± 5.0kHz @ 25 kHz	American Military Standard	MIL-STD-810 C/D/E/F
Battery	2000mAh(Li-Ion)	FM Noise	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	Dust & Water Intrusion	IP57 Standard
Battery Life (5-5-90 Duty Cycle, HighTX Power) High-capacity 2000mAh Li-Ion Battery	Analog: Above 10.5 Hours Digital: Above 14 Hours	Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25kHz	Humidity	Per MIL-STD-810 C/D/E/F Standard
Frequency Stability	± 1.5ppm	Audio Response	+1 ~ -3dB	Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard
Antenna Impedance	50Ω	Audio Distortion	≤3 %		
Dimensions (HxWxD) (with standard battery, without antenna)	125x55x37 mm / 4.921x2.165x1.458 inch	Digital Vocoder Type	AMBE++ or SELP		
Weight (with antenna & standard battery)	355g/ 0.78lb	Digital Protocol	ETSI-TS102 361-1, 2&3		
Front Case	PC				
LCD Display	160x128 pixels, 65536 colors 1.8 inch, 4 rows				
Receiver		Environmental Specifications			
Sensitivity (Analog)	0.3 μV (12dB SINAD) 0.22μV(Typical) (12dB SINAD) 0.4 μV (20dB SINAD)	Operating Temperature	-30°C ~ +60°C		
Sensitivity (Digital)	0.3 μV/BER5%	Operating Temperature	-40°C ~ +85°C		
Selectivity TIA-603 ETSI	60dB @ 12.5 kHz / 70dB @ 20/25 kHz 60dB @ 12.5 kHz / 70dB @ 20/25 kHz	ESD	IEC 61000-4-2 (level 4) 8kV(contact) 15kV(air)		
Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25 kHz 65dB @ 12.5/20/25 kHz	American Military Standard	MIL-STD-810 C/D/E/F		
Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz	Dust & Water Intrusion	IP57 Standard		
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	Humidity	Per MIL-STD-810 C/D/E/F Standard		
Rated Audio Power Output	0.5W	Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard		
Rated Audio Distortion	≤3%				
Audio Response	+1~3dB				
Conducted Spurious Emission	<-57 dBm				
GPS (For PD786Gonly)					
TTFF (Time To FirstFix) Cold Start	<1 minute				
TTFF (Time To FirstFix) Hot Start	<10 seconds				
Horizontal Accuracy	<10 meters				



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PD786/PD786G

Versatile Digital Portable Two-Way Radio

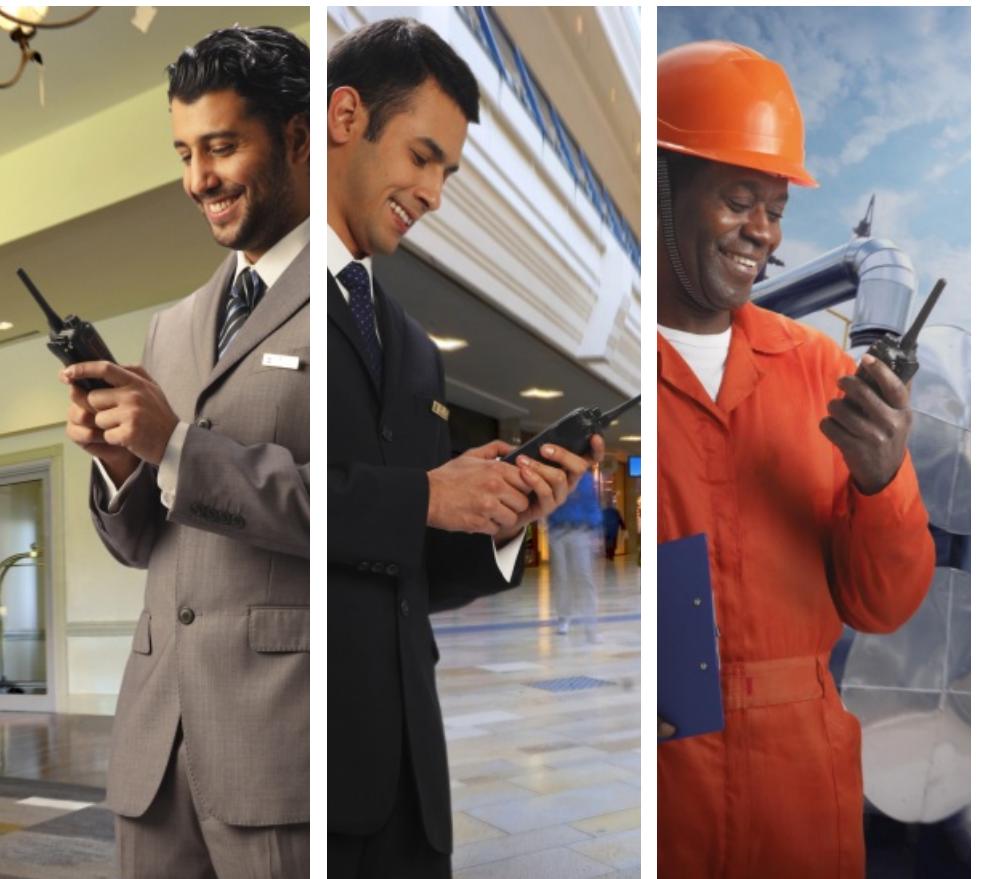
DMR
DIGITAL MOBILE RADIO ASSOCIATION



As a product built to the DMR standard, PD786/786G (PD786G is the model with GPS) is endowed with ergonomic design, allround digital functions and remarkable quality to refresh your experience and enable you to be responsive to emergent situations.

- Large-size HD Transflective Color Display
- Superior Digital Voice

Higher Efficiency Richer Experience



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

PD786/786G 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, PD786/786G 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, PD786/786G ensures clear and crisp voice communication.

Durable Battery

Compared with an analog radio, PD786/786G can obtain an extra 40% operation time.

Higher Spectrum Efficiency, Higher Channel Capacity

Benefiting from the TDMA technology, PD786/786G 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, PD786/786G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, PD786/786G 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 PD786/786G allows users or any third party to further develop other helpful functions (Message, GPS, Call Control and Telemetry).

Main Functions

- ▶ Dual Modes (Analog+Digital)
PD786/786G 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 PD786/786G supports various voicecall 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
PD786G supports viewing of GPS positioning information and sending of GPS text message.
- ▶ IP Service*
PD786/786G allows multiple IP functions if connected with a PC via IP address.
- ▶ Various Analog Signaling Types
PD786/786G supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*), providing higher function expansion capacity.
- ▶ Multiple Languages
PD786/786G supports 10 languages (English, Simplified Chinese, Traditional Chinese, German, Spanish, French, Italian, Polish, Russian 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.

Industrial Design Features



* indicates functions available in later version.