Optional Accessories















Specifications

Specifications						
Frequency Range		VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz				
Channel Capacity		1024				
Zoi	ne Capacity	64(each with a maximum of 16 channels)				
Cha	nnel Spacing	25 /20/12.5 KHz				
Operating Voltage		13.6V ± 15%				
Cu	Standby	<0.6A				
ren	Receive	<2.0A				
Current Drain	Transmit	<12A (45W/50W) <8A (25W)				
Frequ	uency Stability	± 1.5ppm				
Antei	nna Impedance	50 Ω				
Dimensions (H x W x D)		60 X 174 X 200 (mm) / 2.362 X6.850 X7.874 inch				
Weight		1.7 kg / 3.75lbs				
Front Case		PC+ABS				
LCD Display		220 X 176 pixels, 262000 colors 2.0 inch, 4 rows				
Receiver						
Sensitivity(Analog)		0.3 μ V (12dB SINAD) 0.22IV (Typical) (12dB SINAD) 0.4 μ V (20dB SINAD)				
Sensitivity(Digital)		0.3 μ V/BER5%				
Selectivity TIA-603 ETSI		65dB @ 12.5 kHz / 75dB @ 20/25 kHz 60dB @ 12.5 kHz / 70dB @ 20/25 kHz				
Intermodulation TIA-603 ETSI		75dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz				
Spurious Response Rejection TIA-603 ETSI		75dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz				
S/N		40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz				
Rated A	udio Power Output	3W				
Rated Audio Distortion		≤3%				
Audio Response		+1 ~ -3dB				
Conducte	ed Spurious Emission	< –57 dBm				
	GPS (For MD786Gonly)					
	e To First Fix) Cold Start	<1 minute				
TTFF (Time To First Fix) Hot Start		<10 seconds				
Horizontal Accuracy		<10 meters				

Transmitter					
RF Power Output	VHF High Power: 50W VHF Low Power: 25W UHF1 High Power: 45W UHF1 Low Power: 25W UHF3:25W				
FM Modulation	11KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 16KΦF3E @ 25 kHz				
4FSK Digital Modulation	12.5KHz Data Only: 7K6ΦFXD 12.5kHz Data & Voice: 7K6ΦFXW				
Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz				
Modulation Limiting	± 2.5kHz @ 12.5 kHz ± 4.0kHz @ 20 kHz ± 5.0kHz @ 25 kHz				
FM Noise	40dB @ 12.5 kHz 43dB @20 kHz 45dB @ 25 kHz				
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25 kHz				
Audio Response	+1 ~ -3dB				
Audio Distortion	≤3 %				
Digital Vocoder Type	AMBE++ or SELP				
Digital Protocol	ETSI-TS102 361-1, 2&3				
	nental Specifications				
Operating Temperature	-30°C ~ +60°C				
Storage Temperature	–40℃ ~ +85℃ ————————————————————————————————————				
ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV(air)				
American Military Standard	MIL-STD-810 C/D/E/F				
Dust & Water Intrusion	IP54 Standard				
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard				
Humidity	Per MIL-STD-810 C/D/E/F Standard				
All Specifications are tested acc	cording to applicable standards, and subject to				

Applicable Military Standards 810C/D/E/F

	810	C	810D		810E		810F	
Low Pressure	500.1	1	500.2	I, II	500.3	I, II	500.4	П
High Temperature	501.1	I, II	501.2	I, II	501.3	I, II	501.4	I, II
Low Temperature	502.1	1	502.2	I, II	502.3	I, II	502.4	1, 11
Temperature Shock	503.1	1	503.2		503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain	506.1	П	506.2	II .	506.3	I, II	506.4	I, II
Humidity	507.1	II	507.2	II, III	507.3	II, III	507.4	
	509.1		509.2		509.3		509.4	
Sand & Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	VIII, X	514.3	1	514.4		514.5	1/24
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV



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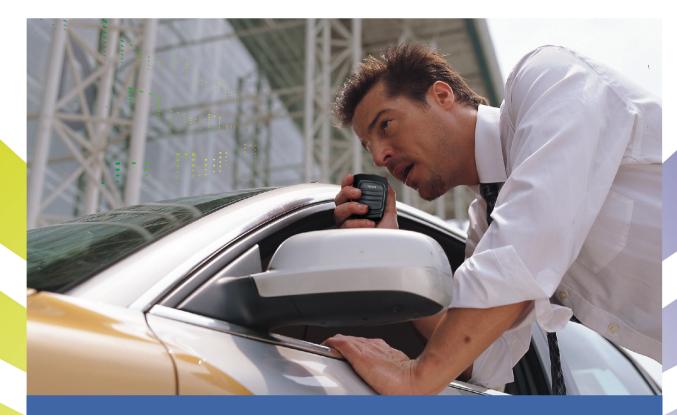
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MD786/MD786G

Versatile Digital Mobile Two-Way Radio



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











Product Features >>



User-centered Design

The large-size color display allows good visibility even under extremely strong light. And the seven programmable keys facilitate your communication in various conditions.

Reliable Quality

MD786/786G is strictly compliant with MIL-STD-810 C/D/E/F and IP54 standards, ensuring outstanding performance even under harsh environments.

Superior Voice

With the combined application of narrowband codec and digital error-correction technologies, MD786/786G 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.



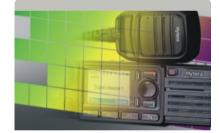
With a built-in 5W speaker, MD786/786G ensures clear and crisp voice communication.

Higher Spectrum Efficiency, Higher Channel Capacity

Benefiting from the TDMA technology, MD786/786G 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 Trunk

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, MD786/786G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, MD786/786G features rich data services and selectable functions such as Message, Scan, Emergency, Emergency Footswitch, Channel Steering, Auto Registration*, High-speed Data Transmission* and Lone Worker*

Further Development Port

The reserved port in MD786/786G allows users or any third party to further develop other helpful functions (Message, GPS, Call Control and Telemetry).

* indicates functions available inlater version

Main Functions >>

- Dual Modes (Analog+Digital)
- MD786/786G 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 MD786/786G supports various voicecall types, including Private Call, Group Call and All Call.
- → GPS
- MD786G supports viewing of GPS positioning information and sending of GPS text message.
- ▶ IP Service*
 - MD786/786G allows multipleIP functions if connected with a PC via IP address.
- Various Analog Signaling Types
 - MD786/786G supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*), providing higher function expansion capacity.
- Multiple Languages
- MD786/786G 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 >>



Palm Microphone SM16A1	Microphone Hanger and Screws	Mounting Bracket Kit	
GPS Antenna(For MD785Gonly)	Fuse	Power Cord	