Optional Accessories















Specifications

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Frequency Range		VHF: 136–174MHz UHF1: 400–470MHz UHF3: 350–400MHz			
Char	nnel Capacity	1024			
Zoı	ne Capacity	64(each with a maximum of16 channels)			
Chai	nnel Spacing	25 /20/12.5 KHz			
Operating Voltage		13.6V ± 15%			
Cui	Standby	<0.6A			
ren	Receive	<2.0A			
Current Drain	Transmit	<12A (45W/50W) <8A (25W)			
Frequ	uency Stability	± 1.5ppm			
Antenna 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			
F	ront 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 Audio Power Output		3W			
Rated A	Audio Distortion	≤3%			
Auc	lio Response	+1 ~ -3dB			
Conducte	ed Spurious Emission	< –57 dBm			
		r MD782Gonly)			
	e To First Fix) Cold Start	<1 minute			
	e To First Fix) Hot Start	<10 seconds			
Horizon	ntal 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	11ΚΦF3E @ 12.5 kHz 14ΚΦF3E @ 20 kHz 16ΚΦF3E @ 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°C ~ +85°C			
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			

Applicable Military Standards 810C/D/E/F

American Military Standard	810	C	8	10D	8	10E	8	10F
Test Items								
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	I, II
	503.1		503.2		503.3		503.4	
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
	506.1	П	506.2	H I	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		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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MD782/MD782G

Versatile Digital Mobile Two-Way Radio





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



www.hytera.cn









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

MD782/782G 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, MD782/782G 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 5W speaker, MD782/782G ensures clear and crisp voice communication.

Higher Spectrum Efficiency, Higher Channel Capacity

Benefiting from the TDMA technology, MD782/782G 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 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, MD782/782G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, MD782/782G 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 MD782/782G allows users or any third party to further develop other helpful functions (Message, GPS, Call Control and Telemetry).

* indicates functions available inlater versio

Main Functions >>

- Dual Modes (Analog+Digital)
- MD782/782G 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 MD782/782G supports various voicecall types, including Private Call, Group Call and All Call.
- → GPS
 - MD782G supports viewing of GPS positioning information and sending of GPS text message.
- ▶ IP Service*
 - MD782/782G allows multipleIP functions if connected with a PC via IP address.
- Various Analog Signaling Types
- MD782/782G supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*), providing higher function expansion capacity.
- Multiple Languages
- MD782/782G 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 >>



Standard Accessories >>

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