

Standard Accessories



Optional Accessory



Specifications

General		Transmitter			
Frequency Range	400-470MHz	RF Power Output	Low Power: UHF1 (400-470MHz), 5-25W; High Power: UHF1 (400-470MHz), 5-45W;		
Channel Capacity	256	FM Modulation	16KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 11KΦF3E @ 25 kHz		
Zone Capacity	32 (each with a maximum of 16 channels)	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXE		
Channel Spacing	25 /20/12.5 KHz	Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz		
Operating Voltage	13.6±15%	Modulation Limiting	±2.5kHz @ 12.5 kHz ±4.0kHz @ 20 kHz ±5.0kHz @ 25 kHz		
Current Drain	Standby (Max.)	FM Noise	40dB @ 12.5 kHz 43dB @ 20KHz 45dB @ 25 kHz		
	Receive (Max.)	Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25KHz		
	Transmit (Max.)	Audio Response	+1 ~ -3 dB		
Frequency Stability	±1.5ppm	Audio Distortion	≤3 %		
Antenna Impedance	50Ω	Digital Vocoder Type	AMBE++		
Dimensions (W*H*L)	174 X 60 X 200 mm / 6.9*2.4*7.9 inch	Digital Protocol	ETSITS102 361-1, 2&3		
Weight	1.7 Kg /60 oz	Environmental Specifications			
Military Standard	MIL-STD-810C/D/E/F	Operating Temperature	-30°C ~ +60°C		
ESD	IEC-801-2KV	Storage Temperature	-40°C ~ +85°C		
Front Case	PC+ABS	Dust & Water Intrusion	IP54 Standard		
LCD Display	220*176 pixels, 262000 colors	Shock & Vibration	Per MIL-STD-810 C/D/E/F Standards		
Receiver		Humidity	Per MIL-STD-810 C/D/E/F Standards		
Sensitivity (Analog)	0.3μV (12dB SINAD) 0.22μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD)	All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.			
Sensitivity (Digital)	0.3uV/BER5%	Applicable Military Standards 810 EIF			
Adjacent Channel Selectivity	TIA603 65dB @ 12.5 kHz / 75dB @ 20 & 25 kHz ETSI 60dB @ 12.5 kHz / 70dB @ 20 & 25 kHz	MIL-STD	810E	810F	
Intermodulation	TIA603 75dB @ 12.5/20/25 kHz ETSI 70dB @ 12.5/20/25 kHz	Method	Procedure	Method	Procedure
Spurious Response Rejection	TIA603 75dB @ 12.5/20/25 kHz ETSI 75dB @ 12.5/20/25 kHz	Low Pressure	II	500.4	II
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	High Temperature	I/A, I/A1	501.4	I/Hot, I/Hot
Rated Audio Power Output	3W	Low Temperature	I/C3, I/C1	502.4	I/C3, I/C1
Rated Audio Distortion	≤3%	Temperature Shock	I/A, I/C3	503.4	I
Audio Response	+1 ~ -3 dB	Solar Radiation	I	505.4	I
Conducted Spurious Emission	-57 dBm	Rain	I, II	506.4	I, III
		Humidity	II	507.4	-
		Salt Fog	I	509.4	I
		Dust	I	510.4	I
		Vibration	I/10, I/5	514.5	I/24
		Shock	I, IV	516.5	I, IV

Your Authorized Dealer:



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MD782

Digital Two-Way Radio

Fully compliant to DMR standard, the MD782 always keep users well-informed in various scenarios with versatile functions. The MD782 offers a solution of efficient real-time digital communication and fleet management while using an ergonomic design and a user-friendly interface. The MD782 is your way of optimizing your organization's efficiency on the job.



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Product Highlights >>



Superior Voice

With the combined application of narrowband codec and digital error-correction technology, the MD782 ensures better audio quality across a wider coverage area.

Dual Modes (Analog & Digital)

The MD782 operates in either analog or digital mode, and is compatible with analog systems currently in use, allowing organizations to easily migrate to the digital era.

High Frequency Spectrum Efficiency

Benefitting from TDMA technology, MD782 allows twice the number of users to share the same channel. This is a huge relief on increasing shortages in spectrum resources.

Secure Communication*

The MD782 is furnished with an enhanced digital encryption capability. Eavesdropping issues are no longer a problem now that your communications are fully secured.



Reliable Quality

The MD782 is strictly compliant to MIL-STD-810 C/D/E/F as well as IP54 standards and is fully reliable in harsh environments.

Intuitive Interface & Button Design

The MD782's high definition color LCD provides outstanding visibility outdoors and in bright environments. Its large keypad and six ergonomically designed programmable keys allow for efficient and productive communications.



Versatile Functions

In addition to conventional communication functions, the MD782 features versatile digital and optional functions such as Messaging, GPS Dispatching*, Data Transmission* and Connection Alert.

Expansion Port

The MD782 allows for further development of additional functions using a reserved expansion port.

Additional Features >>

Versatile Voice Calls

Intelligent signaling of MD782 supports different types of voice calls, including Individual Call, Group Call and All Call.

Messaging

MD782 is can transmit and receive text messages.

Scan

This function allows you to listen to communication activities on other channels so that you can keep a close track of your team members.

DM & RM Operation Modes

RM: radios can communicate with each other via a repeater.
DM: radios can communicate with each other directly.

IP Service*

Multiple IP functions can be accomplished when MD782 is connected to the PC via an IP address.

Multiple Signaling Available

MD782 supports 2-Tone*, 5-Tone*, HDC1200* and CTCSS / CDCSS.

12.5 /20 /25kHz Channel Spacing

Programmable on a per channel basis to comply with different countries frequency allocations.

Emergency

MD782 is equipped with multiple emergency alarm methods such as Man Down and Silent Emergency, enabling you to get instant help in the case of a critical event.

High Power Sound Output

The MD782 has high power audio output with a built-in 5 Watt loudspeaker.

Telemetry & Telecontrol*

MD782 can achieve remote data acquisition and processing via an external sensor.

Software Upgradable

With this feature, you can enjoy additional functions and upgrades without having to buy a new radio.

*Indicates functions available in later version.

Mechanical Design Features >>

