

## **Specifications**

General		Transmitter					
Frequency Range	400-470MHz	RE Power	RF Power Output		Low Power: UHF1 (400-470MHz), 5-25W;		
Channel Capacity	256				High Power: UHF1 (400-470MHz), 5-45W;		
Zone Capacity			FM Modulation		16КФF3E @ 12.5 kHz		
	(each with a maximum of 16 channels)	FM Modu			14КФF3E @ 20 kHz		
Channel Spacing	25 /20/12.5 KHz				11КФF3E @ 25 kHz		
Operating Vo <b>l</b> tage	13.6±15%	4FSK Digital M	Adulation	12.5kHz Data Only: 7K60FXD			
Standby (Max.)	0.6A			12.5kHz Data & Voice: 7K60FXE			
Receive (Max.)	2.0A 12A (5-45W)	Spurious and Harmonics		-36dBm<1GHz			
Curren Receive (Max.) Drain Transmit (Max.)				-30dBm>1GHz			
	8A (5-25W)			±2.5kHz @ 12.5 kHz			
Frequency Stability	±1.5ppm	Modulation	Modulation Limiting		±4.0kHz @ 20 kHz		
Antenna Impedance	50Ω				±5.0kHz @ 25 kHz		
Dimensions (W*H*L)	174 X 60 X 200 mm /	FM Noise		40dB @ 12.5 kHz			
	6.9*2.4*7.9 inch			43dB @ 20KHz			
Weight	1.7 Kg /60 oz			45dB @ 25 kHz			
Military Standard	MIL-STD-810C/D/E/F	Adjacent Channel Power		60dB @ 12.5 kHz			
Front Case	PC+ABS			70dB @ 20/25KHz			
LCD Display	220*176 pixels, 262000 colors Receiver	Audio Response		+1 ~ -3 dB			
Sensitivity (Analog)	0.3µV (12dB SINAD)	Audio Dist	Audio Distortion		≤3 %		
	0.22µV (Typical) (12dB SINAD)	Digital Vocoder Type		AMBE++ /SELP			
	0.4µV (20dB SINAD)	Digital Protocol		ETSI-TS102 361-1, 2&3			
Sensitivity (Digital)	0.3uV/BER5%	Environmental Specifications					
Adjacent Channel Selectivity TIA603 ETSI	65dB @ 12.5 kHz /75dB @ 20 &25 kHz 60dB @ 12.5 kHz /70dB @ 20 &25 kHz	Operating Temperature		<b>-30</b> ℃ ~ +60℃			
		Storage Temperature		-40°C ~ +85°C			
Intermodulation		Dust & Water Intrusion		IP54 Standard			
TIA603	75dB @ 12.5/20/25 kHz	Shock & Vibration Humidity		Per MIL-STD-810 C/D/E/F Standards			
ETSI	70dB @ 12.5/20/25 kHz			Per MIL-STD-810 C/D/E/F Standards			
Spurious Response Rejectio		All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development. Applicable Military Standards 810 E/F					
TIA603	75dB @ 12.5/20/25 kHz 75dB @ 12.5/20/25 kHz						
ETSI	40dB @ 12.5 kHz	MIL-STD		810E		10F	
S/N	43dB @ 20 kHz 45dB @ 25 kHz	Low Pressure	Method 500.3	Procedure	Method 500.4	Procedure II	
		High Temperature Low Temperature	501.3 502.3	I/A, II/A1 I/C3, II/C1	501.4 502.4	I/Hot, II/Hot	
Rated Audio Power Output		Temperature Shock	503.3	I/A, I/C3	503.4	1 1	
Rated Audio Distortion	≤3%	Solar Radiation	505.3	L II	505.4 506.4	1	
		Rain Humidity	506.3 507.3	1. II II	506.4	1, III -	
Audio Response Conducted Spurious Emission	+1 ~ -3 dB	Salt Fog	509.3	1	509.4	1	
	n -57 dBm	Dust Vibration	510.3 514.4	I I/10, II/3	510.4 514.5	I 1/24	
		Shock	516.4	I, IV	516.5	I, IV	

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Fully compliant to the DMR standard, the MD785 keeps users well-informed in various scenarios, while offering a solution of efficient real-time communication and fleet management with versatile functionalities. This radio has an ergonomic design and a user-friendly interface. The MD785 is your way of optimizing your organization's efficiency on the job.







## Product Highlights >>



## Superior Voice

With the combined application of advanced codec and digital errorcorrection technology, MD785 is capable of ensuring you superior voice with a wider coverage.

### Dual Modes

MD785 can operate in either analog or digital mode. Accordingly, you can get rid of worries about its compatibility with the analog system that you are using, and just enjoy the benefits it brings.

#### High Frequency Spectrum Efficiency

Benefiting from TDMA technology, MD785 allows twice the users to share the same channel. This is a big help to relieve the stress of increasing shortage in spectrum resource.

#### Secure Communi

MD785 is furnished with enhanced digital encryption capability. Eavesdropping that haunts analog radio is no longer a problem, and your communication is fully secured.



#### eliable Quality

MD785 is strictly compliant with MIL-STD-810 C/D/E/F and IP54 standards, ensuring outstanding performance in harsh environments.

## User-friendly UI and Button Design

MD785 is furnished with TFT high definition color LCD. With a large-sized keypad and six ergonomically designed programmable keys, you can achieve high-effective communication rapidly.



#### ersatile Services

In addition to conventional communication services, MD785 features rich digital services and optional functions such as Message, GPS Dispatching\*, High-speed Data Transmission\*.

#### rther Development Port

The reserved port in MD785 allows users or any third party to further develop other helpful functions.

## Additional Features >>

- Versatile Voice Calls Intelligent signaling of MD785 supports various voice call types, including Individual Call, Group Call, All Call & Late Entry.
- Message MD785 supports

MD785 supports transmission and reception of text message.

- 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.
- Multiple Signalings Available MD785 supports 2-Tone\*, 5-Tone\*, HDC1200\* and CTCSS/CDCSS.

## Industrial Design Features ))



> 12.5 /20 /25kHz Channel Spacing

### Emergency

MD785 is equipped with multiple emergency alarm methods such as Man Down and Silent Emergency, enabling you to get instant help in case of a critical event.

Sonorous Sound Output

MD785 can output sonorous sound with a built-in high-power loudspeaker (6W).

Software Upgradable

With this function, you can enjoy more powerful features without buying a new machine.