











As a product built to the DMR standard, the MD782 delivers quality digital voice and data communications as well as all-round digital functions to increase your efficiency and enable you to be responsive to emergency situations. The radio can also be used as a control station to monitor and communicate with radio fleets from a desk. The MD782G is the GPS version of the radio, which allows integration with Hytera SmartDispatch or other 3rd party GPS Solutions.

Applications



Product Features

User Friendly Design

The large-size color display allows good visibility even under extremely strong light. The seven programmable keys facilitate your communication and the optional keypad microphone enhances.

Rugged & Reliable

Complies with MIL-STD-810 C/D/E/F/G standards and is IP54 (5: Generally protected against dust; 4: Protected against the effects of light rain or minor water splashes) ensuring outstanding performance.

Higher Spectrum Efficiency, Higher Channel Capacity The TDMA technology allows twice the channels based

The TDMA technology allows twice the channels based on the same spectrum resource. This relieves the stress of increasing shortage in spectrum resource.

Secure Communication

Besides the encryption inherent to digital technology, The MD782 provides enhanced encryption capabilities (such as 256bit encryption algorithm). It has analog scrambling, and digital encryption using Advanced Encryption Standard (AES) and ARCFOUR (ARC4) encryption methodology to both voice and data.

Multifaceted Features

In addition to conventional communication services, the MD782 is capable of Text Message, Scan, Emergency, Channel Steering, Auto Registration, Lone Worker, Radio Check, Remote Monitor, Call Alert, Radio Enable, and Radio Disable

Roaming

Automatic roaming of all sites in an IP Multi-site Connect system.

Pseudo Trunk

This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations.

Data Features

Supports data capabilities of sending Private and Group text messages. It also supports a Third Party to control the radio via Third party API (GPS, Radio Registration Services, Radio Call Control, Telemetry, Data Transfer), via Telemetry control to radio.

Optional

• Dual Mode: Analog & Digital

Dual mode (analog & digital) operation ensures a smooth analog to digital migration.

Versatile Voice Calls

The intelligent signaling of the MD782 supports various voice call types, including Private Call, Group Call , All Call and Emergency Call.

GPS Positioning

Supports viewing of GPS positioning information and sending of GPS text message.

Expansion Ports

This allows third parties to develop accessory and applications via front and rear port of the mobile. (Features such as channel steering, emergency footswitch can be supported via the rear port).

Various Analog Signaling Types

Various analog signaling types (HDC1200, DTMF phone, 2-Tone, and 5-Tone), various squelch control types (CTCSS / CDCSS), thus providing higher function expansion capacity to the analog world.

One Touch Call/Text

Supports One Touch features that comprise of Preprogrammed Text Messages, Voice Calls and Supplementary Features

• Scan

Capable of scanning of pure analog voice and signaling, pure Digital voice and data, and also mix mode scan that comprise of Analog and Digital activities.

Software Upgradeable

Upgradeable software enables new features without buying a new radio; MD782(G) could also be switched into DMR trunking modes with corresponding trunking license applied in the same hardware.

Analog Upgradeable Version

The Analog version of the MD782 can be upgraded at your organizations own pace to provide an easy step-by-step migration to digital technology. Analog features include 2-tone, HDC 1200, 5-tone Signaling, Scan, and Scrambler.

Accessories

Included

- Palm Microphone
- Microphone Hanger & Screws
- Mounting Bracket
- Power Cord
- Fuse
 - GPS Antenna (MD782G only)



Keypad Microphone SM19A1



External Speaker SM09D1



Programming Cable (USB Port) PC37



Desktop Microphone SM10A1

Specifications

General	Frequency Range		VHF: 136 - 174MHz ; UHF1: 400 - 470MHz UHF2: 450 - 520MHz ; UHF3: 350 - 400MHz UHF5: 804 - 941MHz (only for DMR Trunking)		
	Channel Capacity		1024		
	Zone Capacity		64 (with a maximum of 16 channels each)		
	Channel Spacing			25 / 20 / 12.5KHz	
	Operating Voltage		13.6 V ± 15%		
	Current Drain		Standby	<0.6A	
			Receive	<0.2A	
			Transmit	5W: <5A 25W: <8A 45/50W <12A	
	Frequency Stability		±1.5ppm		
	Antenna Impedance		50 Ω		
	Dimensions (HxWxD)		2.36 x 6.85 x 7.87 inches		
	Weight		3.75 lbs		
	FCC ID	MD782	136-174 MHz: YAMMD78XVHF 400-470 MHz: YAMMD78XU1 450-520 MHz: YAMMD78XU2		
		MD782G	136-174 MHz: YAMMD78XGVHF 400-470 MHz: YAMMD78XG-U1 450-520 MHz: YAMMD78XG-U2		
	Industry Canada ID	MD782	138-174 MHz: 8913A-MD782VHF(L / H) 406.1-470 MHz: 8913A-MD782U1(L / H) 450-470 MHz: 8913A-MD782U2(L / H)		
		MD782G	138-174 MHz: Pending 406.1-470 MHz: Pending 450-470 MHz: Pending		
			1		
ons	Operating Temperature		-22°F ~ +140°F		
Environmental Specifications	Storage Temperature		-40° F~ +185° F		
	ESD		IEC 61000 - 4 - 2 (level 4) ± 8kV(contact) ; ± 15kV (air)		
	American Military Standard		MIL-STD-810 C/D/E/F/G		
	Dust & Water Intrusion		IP54 Standard		
	Humidity		Per MIL-STD-810 C/D/E/F/G Standard		
	Shock & Vibration		Per MIL-STD-810 C/D/E/F/G Standard		
	TTFF (Time To First Fix) Cold Start			<1 minute	
GPS	TTFF (Time To First Fix) Hot Start			<10 seconds	
	Horizontal Accuracy		<10 meters		

Transmitter	RF Power Output	Low VHF & UHF1,2,3: 5-25W; High VHF: 5-50W, UHF1,2,3: 5-45W UHF5: 5-35W	
	FM Modulation (Analog Emissions Designator)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7К6фFXD 12.5KHz Data & Voice: 7К6фFXW	
	Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz	
	Modulation Limiting	± 2.5KHz @ 12.5KHz ; ± 4.0KHz @ 20KHz ; ± 5.0KHz @ 25KHz	
	FM Hum & Noise	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 20/25KHz	
	Audio Response	+1 ~ -3dB	
	Audio Distortion	≤3%	
	Digital Vocoder Type	AMBE++ or SELP	
	Digital Protocol	ETSI-TS102 361-1, 2&3	

	Sensitivity	Analog	0.3 μ V (12dB SINAD) ; 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD)
Receiver		Digital	0.3 µ V/BER5%
	Selectivity TIA-603 ETSI	65dB @ 12.5KHz / 75dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz	
	Intermodulation TIA-603 ETSI	75dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
	Spurious Response Rejection TIA-603 ETSI	75dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
	Blocking TIA-603 ETSI	90dB 84dB	
	S/N	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	Date d Audia Davies Outerst	Internal	@20ohm load - 3W
	Rated Audio Power Output	External	@8 ohm load - 7.5W
	Max Audio Power Output	Internal	@20ohm load - 8W
		External	@8 ohm load - 20W
	Rated Audio Distortion	≤ 3%	
	Audio Response	+1 ~ -3dB	
	Conducted Spurious Emission	< -57dBm	

Your Local Dealer

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