

SPECIFICATIONS

		GENERAL	
Frequency Range		UHF1: 400-470MHz; UHF3: 350-400MHz; VHF: 136-174MHz	
Channel Capacity		1024	
Zone Capacity		64(each with a maximum of 256 channels)	
Channel Spacing		Analogue: 25/20/12.5kHz Digital: 12.5kHz	
Operating Voltage		13.6 V ±15%	
Current Drain	Standby	< 0.6A	
	Receive	< 2.0A	
	Transmit	1W	<2A
		25W	<8A
		45W	<12A
		50W	<12A
Weight		1.7 kg	
Dimensions (H×W×D)		60 x 174 x 200 mm	
Frequency Stability		±0.5 ppm	
Antenna Impedance		50Ω	
LCD Display		2.0 inch, 4 rows	
		RECEIVER	
Sensitivity	Analogue	0.22μV (12dB SINAD) 0.18μV (12dB SINAD) (Typical) 0.35μV(20dB SINAD)	
	Digital	0.22µV/BER5%	
6 1	TIA-603	65dB @ 12.5kHz / 75dB @ 20/25kHz	
Selectivity	ETSI	60dB @ 12.5kHz / 70dB @ 20/25kHz	
Intermodulation	TIA-603	75dB @ 12.5/20/25kHz	
	ETSI	70dB @ 12.5/20/25kHz	
Spurious Response Rejection	TIA-603	75dB @ 12.5/20/25kHz	
	ETSI	70dB @ 12.5/20/25kHz	
Hum and Noise		40dB @ 12.5kHz; 43dB @ 20kHz 45dB @ 25kHz	
Rated Audio Power Output		Internal (@20 ohm load)	3W
		External (@8 ohm load)	7.5W
Max Audio Power Output		Internal (@20 ohm load)	8W
		External (@8 ohm load)	20W
		≤3%	
Rated Audio Dis	tortion	≤3%	
Rated Audio Dis		≤3% +1 ~ -3dB	

	RANSMITTER	
RF Power Output	Low power : 1-25W High power : UHF: 1-45W; VHF: 5-50W	
FM Modulation	11K0F3E @ 12.5kHz; 14K0F3E @ 20kHz; 16K0F3E @ 25kHz	
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW	
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 @ 12.5kHz 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	
ENVIF	RONMENTAL	
Operating Temperature	-30°C~ +60°C	
Storage Temperature	-40°C~ +85°C	
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)	
Military Standard	MIL-STD-810 C/D/E/F/G	
Dustproof & Waterproof	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	
	GPS	
Accuracy specs are for long-term tra (95th percentile values>5 satellites	acking visible at a nominal -130dBm signal strength	
TTFF (Time To First Fix) Cold Start	<1 minute	
TTFF (Time To First Fix) Hot Start	<10 seconds	
Horizontal Accuracy	<5 meters	

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.



The Powerful Digital Mobile Two-way Radio

- ➤ Excellent voice transmission
- ➤ Large Colourful Display with High Visibility
- > Remote Control Head
- > Full Duplex Call/ Single Frequency Repeater



















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PROFESSIONAL AND SIMPLE TO USE



User Friendly

The large colourful display offers a clear screen even under strong sunlight. The large keyboard and seven ergonomic programmable keys facilitate efficient and productive communications in various conditions.



Reliable & Durable

MD78**5**i Series **complies to both** MIL-STD-810 C/D/E/F/G and IP54 standards, ensuring outstanding performance even under harsh environments.



DMO True 2-Slot

In DMO mode, MD78**5**i Series provide 2-slot communication, which allows for 2 talk paths on one frequency simultaneously.



Remote Control Head

The remote control kit offers you great flexibility. You can install the control console and the main units at separate locations based on actual requirements.



Full Duplex Call (Optional)

Hytera MD78**5**i can **provide** full duplex calls with PD98**5**, MD78**5**i, telephones or cell phones in DMO or RMO mode.



Telemetry

Telemetry is helpful for operator real-time remote monitoring. It can be used to check a devices running status and also control the devices.



GPS

With the optional built-in GPS module, MD785i can upload its location to AVL applications in real time.



Enlarge Communication Range

With 50W transmit power output and higher RX sensitivity, the MD785i Series increases the communications range there by reducing your network investment.



Smooth Migration

The MD785i Series can operate in analogue and digital modes, ensuring a smooth and seamless migration between the two technologies. Simple, Smooth, and Cost-effective.



Single Frequency Repeater Mode (Optional)

When SFR is enabled, MD785i uses one slot to receive voice and data, then transmits them on an alternate slot. This extends the communication range in DMO mode.



Analogue Signaling

MD785i Series support DTMF, 5 tone, HDC1200 and 2 tone signalling.



Secure Communication

MD785i Series supports both basic and advanced encryption technology. This provides a high level of security protection for your voice and data communications.



Roaming

MD78 $\mathbf{5}$ i Series support automatic roaming at all sites in an IP Multi-site Connect system.



Text Message

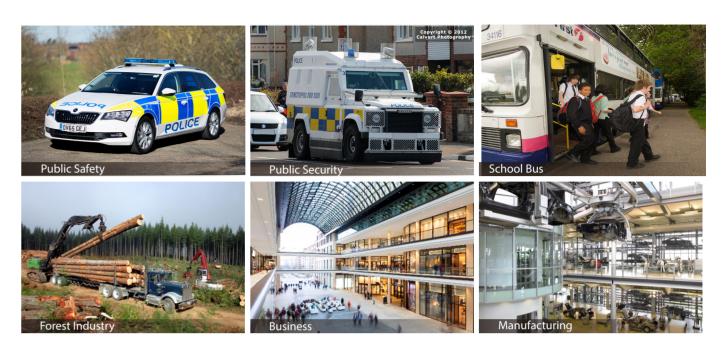
This feature is useful for communicating sensitive information or when in noisy environments where it is hard to hear the voice clearly.



Back To Back Solution

The back to back solution achieves cross-band communication between analogue and digital modes. With a back to back data cable, two MD785i mobile radios can be connected to realize intercommunication between different systems.

VERTICAL MARKETS



ACCESSORIES Diverse accessories for specific tasks

STANDARD

Palm Microphone

(For Half Duplex

. Telephone Style

Handset (For Ful Duplex Model)

Bracket

Power Cord



Pictures above are for reference only and may vary from actual products.