SPECIFICATIONS

		GENERAL	
Frequency Range		UHF1: 400-470MHz; UHF3: 35 VHF: 136-174MHz	50-400MHz;
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 ($H \times W \times D$)		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%	
Calaatiiriitee	TIA-603	65dB @ 12.5kHz / 75dB @ 20/25kHz	
Selectivity	ETSI	60dB @ 12.5kHz / 70dB @ 20/25kHz	
	TIA-603	75dB @ 12.5/20/25kHz	
مريحة والمراجع ومسمع والمراجع	TIA-003	75dB @ 12.5/20/25kHz	
Intermodulation	ETSI	75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz	
Spurious			
	ETSI	70dB @ 12.5/20/25kHz	
Spurious Response	ETSI TIA-603	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz	lz
Spurious Response Rejection Hum and Noise	ETSI TIA-603 ETSI	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz 40dB @ 12.5kHz; 43dB @ 20kH	Iz 3W
Spurious Response Rejection	ETSI TIA-603 ETSI	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz 40dB @ 12.5kHz; 43dB @ 20kH 45dB @ 25kHz	
Spurious Response Rejection Hum and Noise Rated Audio Pov	ETSI TIA-603 ETSI ver Output	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz 40dB @ 12.5kHz; 43dB @ 20kH 45dB @ 25kHz Internal (@20 ohm load)	3W
Spurious Response Rejection Hum and Noise	ETSI TIA-603 ETSI ver Output	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz 40dB @ 12.5kHz; 43dB @ 20kH 45dB @ 25kHz Internal (@20 ohm load) External (@8 ohm load)	3W 7.5W
Spurious Response Rejection Hum and Noise Rated Audio Pov	ETSI TIA-603 ETSI ver Output	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz 40dB @ 12.5kHz; 43dB @ 20kH 45dB @ 25kHz Internal (@20 ohm load) External (@20 ohm load) Internal (@20 ohm load)	3W 7.5W 8W
Spurious Response Rejection Hum and Noise Rated Audio Powe	ETSI TIA-603 ETSI ver Output er Output tortion	70dB @ 12.5/20/25kHz 75dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz 40dB @ 12.5kHz; 43dB @ 20kHz 40dB @ 25kHz Internal (@20 ohm load) External (@8 ohm load) Internal (@20 ohm load) External (@8 ohm load)	3W 7.5W 8W

	TRANSMITTER
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
ENVI	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 tracking (95th percentile values>5 satellites 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.





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MD785i Series

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







www.hytera.co.uk



As a product built to the DMR standard, MD785i Series is endowed with ergonomic design, all-round digital functionality and remarkable quality. These features improve managements efficiency and its ability to respond to emerging situations efficiently. The MD785i Series is the ideal solution for in-vehicle or desktop communication requirements.

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

MD785 i Series complies to both MIL-STD-810 C/D/E/F/G and IP54 standards, ensuring outstanding performance even under harsh environments.



In DMO mode, MD785 Series provide 2-slot communication, which allows for 2 talk paths on one frequency simultaneously.



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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 MD785i can provide full duplex calls with PD985, MD785i, 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 built-in GPS module, MD785 uploads 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 MD785 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.

Analog Signaling

E MD785 i Series support DTMF, 5 tone, HDC1200 and 2 tone signaling.

Secure Communication



距 Roaming

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MD785i 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 analog 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

