

Digital
Migration Radio
MD65X



Features

Lightweight, Sleek and Stylish

Only 165x46x140mm in size and weighs a mere 1.05kg.

Remote Control

All operations are done via the microphone and are easy to use and control.

Selectable RF Power Output

Continuously adjustable from 1W to 25W.

Superior Voice Quality

Uses narrowband codec and digital error-correction technologies for superior voice clarity in noisy environments or at the edge of the coverage area. Also includes AGC technology for optimising voice input and output.

Advanced Signaling

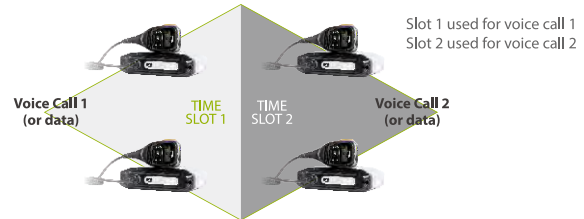
Supports multiple advanced analogue signalling modes, including HDC1200, 2-Tone and 5-Tone for better integration into existing analogue radio fleets.

Versatile Services

In addition to conventional communication services, MD65X features rich data services and selectable functions such as: Text Message, Telemetry, Emergency, OATP and GPS.

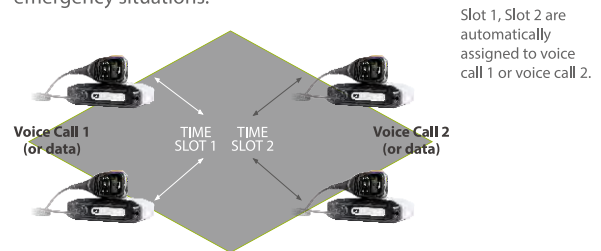
DMO True 2-Slot

In DMO mode, Hytera provides 2-slot communication which allows for two talk channels on a single frequency.



Dual-slot Pseudo Trunk

With this feature, a free time slot can be allocated to a member who needs to communicate urgently, effectively enhancing frequency efficiency and allowing timely communication in emergency situations.



Reliable Quality

MD65X is compliant with the stringent MIL-STD-810 C/D/E/F/G and IP54 standards, ensuring outstanding performance even in harsh environments.

GPS Positioning (Factory Option)

The built-in GPS module supports GIS applications.

Highlights

- The lightest DMR mobile radio

- RF output power adjustable from 1W to 25W
- DMO True 2-Slot
- Easy operation microphone with display



Target Markets

The compact MD65X is specifically designed with safety and ease-of-operation in mind, providing safe and reliable communications for numerous applications across industry.



Taxi



Transportation



Public security

Accessories

Versatile accessories for specific tasks



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

FRONT



BACK



TOP



Specifications

General		
Frequency Range	UHF1: 400-470MHz; UHF2: 450-527MHz; VHF: 136-174MHz	
Channel Capacity	1024	
Zone Capacity	64 (each with a maximum of 16 channels)	
Channel spacing	12.5kHz / 20kHz / 25kHz	
Operating Voltage	13.6 V ±15%	
Current Drain	Standby	< 0.6A
	Receive	< 2.0A
	Transmit	1W
25W		<8A
Weight	1050g	
Dimensions	165 x 46 x 140mm	
Frequency Stability	±0.5 ppm	
Antenna Impedance	50Ω	
Receiver		
Sensitivity	Analog	0.3μV (12dB SINAD); 0.22μV (Typical) (12dB SINAD); 0.4μV (20dB SINAD)
	Digital	0.3μV /BER5%
Selectivity	TIA-603	65dB @ 12.5kHz / 75dB @ 20/25kHz
	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	Microphone (@20 ohm load)	1.5W
	External (@8 ohm load)	7.5W
Max Audio Power Output	Microphone (@20 ohm load)	3W
	External (@8 ohm load)	20W
Rated Audio Distortion	≤3%	
Audio Response	+1 ~ -3dB	
Conducted Spurious Emission	<-57dBm	

Transmitter	
RF Power Output	1-25W
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 @ 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

Environmental	
Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dustproof & Waterproof	IP54 Standard
Humidity	MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	MIL-STD-810 C/D/E/F/G Standard

GPS (for MD65X GPS only)	
Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)	
TTF (Time To First Fix) Cold Start	<1 minute
TTF (Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy	<10 meters

All specifications are subject to change without notice due to continuous development.

MD65X, X=0, 2, 5, 6 or 8, model number varies geographically. For details, please contact our regional sales representatives.



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