

# **Specifications**

		General	
Frequency Range		UHF1: 400-470MHz; VHF: 136-174MHz*	
Channel Capacity		1024	
Zone Capacity		64 (each with a maximum of 16 channels)	
Channel spacing		12.5KHz / 20KHz / 25KHz <sup>*</sup>	
Operating Voltage		13.6 V ±15%	
Current Drain	Standby	< 0.6A	
	Receive	< 2.0A	
	Transmit	1W	<3A
		25W	<8A
Weight		1050g	
Dimensions  Francisco de Chalaille		165 X 46 X 140mm	
Frequency Stability		±0.5 ppm	
Antenna Impedan	ce	50Ω	
		Receiver	
Sensitivity	Analog	0.3 V (12dB SINAD); 0.22 V (Typical) (12dB SINAD); 0.4 V (20dB SINAD)	
	Digital	0.3 V /BER5%	
Selectivity	TIA-603	65dB @ 12.5KHz / 75dB @ 20/25KHz <sup>#</sup>	
	ETSI	60dB @ 12.5KHz / 70dB @ 20/25KHz <sup>e</sup>	
Intermodulation	TIA-603	75dB @ 12.5/20/25KHz <sup>#</sup>	
	ETSI	70dB @ 12.5/20/25KHz <sup>*</sup>	
Spurious Response Rejection	TIA-603	75dB @ 12.5/20/25KHz <sup>®</sup>	
	ETSI	70dB @ 12.5/20/25KHz	
Blocking	TIA-603	90dB	
	ETSI	84dB	
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	

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 <sup>*</sup> ±5.0KHz @ 25KHz <sup>*</sup>	
FM Hum & Noise	40dB @ 12.5KHz 43dB @ 20KHz" 45dB @ 25KHz"	
Adjacent Channel Power	60dB @ 12.5KHz; 70dB @ 20/25KHz <sup>‡</sup>	
Audio Response	+1 ~ -3dB	
Audio Distortion	≤3%	
Digital Vocoder Type	AMBE++ or SELP	
Digital Protocol	ETSI-TS102 361-1,-2,-3	
Env	vironmental	
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 tr visible at a nominal -130dBm signa	acking(95th percentile values>5 satellites I strength)	
TTFF (Time To First Fix) Cold Start	<1 minute	
TTFF (Time To First Fix) Hot Start	<10 seconds	









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







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### **Features**

#### Lightweight, Sleek and Stylish

Only 165x46x140mm in size and weighs a mere 1.05kg (including smart microphone).

#### **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**

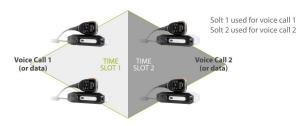
Supports multiple advanced analogue signalling modes, including HDC1200, 2-Tone and 5-Tone for better integration into existing analogue radio fleets.

#### **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 MDX65X 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** 







