SPECIFICATIONS

GENERAL			
Frequency Range		UHF:400-470MHz; VHF: 136-174MHz	
Channel Capacity		48 (16 channels per zone)	
Zone Capacity		3	
Channel spacing		12.5 / 25 KHz	
Operating Voltage		13.6 V ±15%	
Current Drain	Standby	around 0.3A	
	Receive	< 1 A	
	Transmit	1W	<3A
		25W	<8A
		5W	<5A
		45W/50W	<12A
Weight		1100g	
Dimensions		164 X 43 X 150 mm	
Frequency Stability		±0.5 ppm	
Antenna Impedance		50Ω	

RECEIVER			
Sensitivity	Analog	VHF: 0.16uV (12dB SINAD) UHF: 0.18uV (12dB SINAD)	
	Digital	VHF: 0.16uV/BER5% UHF: 0.18uV/BER5%	
Selectivity	TIA-603	60dB @ 12.5KHz / 70dB @ 25KHz#	
	ETSI	60dB @ 12.5KHz / 70dB @ 25KHz#	
Intermodulation	TIA-603	70dB @ 12.5/25KHz#	
	ETSI	65dB @ 12.5/25KHz#	
Spurious Response Rejection	TIA-603	70dB @ 12.5/25KHz#	
	ETSI	70dB @ 12.5/25KHz	
Blocking	TIA-603	90dB	
	ETSI	84dB	
Hum and Noise		40dB @ 12.5KHz 45dB @ 25KHz#	
Rated Audio Power Output		Internal (@16 ohm load)	4W
		External (@8 ohm load)	8W
Max Audio Power Output		Internal (@16 ohm load)	6W
		External (@8 ohm load)	10W
Rated Audio Distortion		⩽3%	
Audio Response		+1 ~ -3dB	
Conducted Spurious Emission		<-57dBm	

TRANSMITTER	
RF Power Output	Low power version: 1-25W (UHF/VHF) High power version: 5-45W(UHF) / 5-50W(VHF)
FM Modulation	11K0F3E @ 12.5KHz; 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 ±5.0KHz @ 25KHz#
FM Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz#
Adjacent Channel Power	60dB @ 12.5KHz; 70dB @ 25KHz#
Audio Response	+1 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

POSITIONING SPECIFICATIONS (VHF ONLY)	
Positioning System	BeiDou Only; GPS Only; GPS + BeiDou
Cold Start (Time to First Fix)	<1 minute
Hot Start (Time to First Fix)	<10 seconds
Horizontal Position Accuracy	<5 m

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 G
Dustproof & Waterproof	IP54 Standard
Humidity	MIL-STD-810 G Standard
Shock & Vibration	MIL-STD-810 G Standard

#20KHz/25KHz will not be available on new equipment in the U.S. after 2011-01-01.

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

MD61X, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.

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Digital **Migration** Radio

MD61X



➤ Analog & Digital Dual Modes ➤ Clear Voice

www.hytera.com



PROFESSIONAL AND SIMPLE TO USE

A&D Auto Detect
Compatible with analog conventional and digital conventional modes. Allow MD61X to simultaneously monitor analog and digital modes and automatically respond in each mode. It is an easy way for migration to digital from analog.

PSEUDO TRUNK
Several talk groups share the same frequency, and each one of them can dynamically chose to use one of the slots to talk. This is a two-slot-trunked mode. While time-slot 1 is busy, MD61X will use time-slot 2 to transmit.

ENLARGE TALKING RANGE
With a high RF power output up to 50W, MD61X can dramatically enlarge your communication range.

SUPPLEMENTARY FEATURES (Optional)
MD61X supports radio Enable/Disable, Remoter Monitor and Priority Interrupt.

ANALOG SIGNALING
Support DTMF and HDC1200 signaling in analog mode.

EMERGENCY ALARM/CALL
Use the orange emergency button to initiate an emergency alarm and call to other radios.

RELIABLE AND DURABLE
MD61X is compliant with MIL-STD-810 G and IP54.

PRIVACY
Basic end-to-end Encryption secures your voice and data transmission.

ROAMING (Optional)
It allows MD61X to be used in a large multi-site network.

GPS POSITIONING (VHF Optional)
MD61X offers an optional built-in GPS function for real-time location tracking and reporting to AVL applications.

TARGET MARKETS


Taxi


Agriculture


Truck


Delivery


School Bus


Ambulance

ACCESSORIES

Standard


Power Cord


Mounting Bracket


Palm Microphone

Options


Desktop Microphone


External Speaker


Programming Cable


Foot Switch (external PTT)


Ignition Cable


Power Supply (100~240VAC/5A 13.8VDC/16A)


Antenna


GPS Antenna


Back to Back Data Cable