i SERIES

Hytera

Digital **Migration** Radio

MD622 *i* SERIES

- Analog & Digital Dual Modes
- Clear Voice
- Remote Control Head
- GPS and Bluetooth Option

DMR
DIGITAL MOBILE RADIO ASSOCIATION

www.hytera.us

PROFESSIONAL AND SIMPLE TO USE

A&D Auto Detect
Compatible with analog conventional and digital conventional modes. Allow MD622i to simultaneously monitor analog and digital modes and automatically respond in each mode. It is an easy way for migration to digital from analog.

ENLARGE TALKING RANGE
With a high RF power output up to 50W, MD622i can dramatically enlarge your communication range.

GPS POSITIONING (Optional)
With an external GPS module and GPS antenna, MD622i can upload its real-time position to AVL applications.

REMOTE CONTROL HEAD(Coming soon)
Remote control head kit reduces your concerns of installation, and offers you a flexible solution for various vehicle types.

ANALOG SIGNALING
Support DTMF and HDC1200 for PTT ID and Emergency Call.

DATA SERVICES
MD622i supports data capabilities, such as call alias, contacts, history, text message.

RELIABLE AND DURABLE
MD622i is compliant with MIL-STD-810 C/D/E/F/G and IP54.

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, MD622i will use time-slot 2 to transmit.

RADIO REGISTRATION SERVICE
RRS allows MD622i working in Smart Dispatch and SmartOne Dispatch, for online/offline presence.

SUPPLEMENTARY FEATURES (Optional)
MD620i supports radio Enable/Disable, Remoter Monitor and Priority Interrupt.

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

BUILT-IN BLUETOOTH (Factory Optional)
Built-in Bluetooth supports MD622i to have wireless audio accessories and external PTT device connected.

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

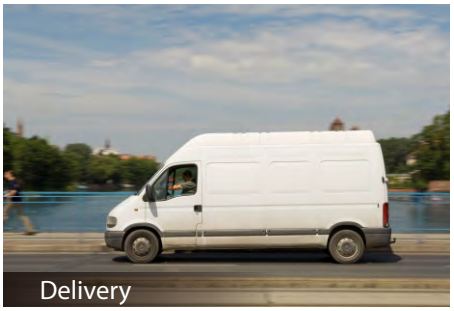
ROAMING
It allows MD620i to be used in a large multi-site network.

TARGET MARKETS

Taxi

Agriculture

Truck


Delivery

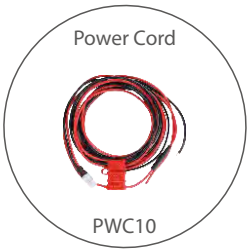
School Bus

Ambulance

ACCESSORIES

Diverse accessories
for specific tasks

STANDARD



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

SPECIFICATIONS

GENERAL			
Frequency Range		UHF: 400-470MHz; VHF: 136-174MHz	
Channel Capacity		256 (16 channels per zone)	
Zone Capacity		16	
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	<12A
Weight		1100g	
Dimensions		164 X 43 X 150 mm	
Frequency Stability		±0.5 ppm	
Antenna Impedance		50Ω	
LCD Display		128*64 pixels, monochrome, 1.5 inch, 2 rows	

RECEIVER			
Sensitivity	Analog	0.3μV (12dB SINAD); 0.22μV (Typical) (12dB SINAD); 0.4μV (20dB SINAD)	
	Digital	0.3μV /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)	12W
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

ENVIRONMENTAL	
Operating Temperature	-30℃~ +60℃
Storage Temperature	-40℃~ +85℃
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.

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