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	<12A
Weight	1100g	
Dimensions	164 X 43 X 150 mm	
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	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.

i SERIES

Digital Migration Radio

MD612 i SERIES

➤ Analog & Digital Dual Modes   ➤ Clear Voice

➤ Remote Control Head   ➤ GPS and Bluetooth Option

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Labels on radio (top image):
- CHANNEL UP/DOWN
- VOLUME UP/DOWN
- EMERGENCY BUTTON
- AUDIO/PROGRAMMING PORT
- POWER ON/OFF
- INTERNAL SPEAKER
- PROGRAMMABLE BUTTONS

Labels on radio (bottom image):
- RF ANTENNA CONNECTION PORT
- GPS CONNECTION PORT
- DB26 ACCESSORIES PORT
- DC POWER SUPPLY REQUIRED

TARGET MARKETS

- Taxi
- Agriculture
- Truck
- Delivery
- School Bus
- Ambulance

PROFESSIONAL AND SIMPLE TO USE

A/D — A&D Auto Detect
Compatible with analog conventional and digital conventional modes. Allow MD612i to simultaneously monitor analog and digital modes and automatically respond in each mode. It is an easy way for migration to digital from analog.

INCREASED COVERAGE RANGE
With a high RF power output up to 50W, MD612i can dramatically enlarge your communication range.

GPS POSITIONING (Optional)
With an external GPS module and GPS antenna, MD612i 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(coming soon) signaling in analog mode.

RELIABLE AND DURABLE
MD612i 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, MD612i will use time-slot 2 to transmit.

RRS — RADIO REGISTRATION SERVICE
RRS allows MD612i working in Smart Dispatch and SmartOne Dispatch, for online/offline presence.

SUPPLEMENTARY FEATURES (Optional)
MD612i supports radio Enable/Disable, Remoter Monitor and Priority Interrupt.

SOS — 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 MD612i to support wireless audio accessories and PTT devices to provide hands-free operation.

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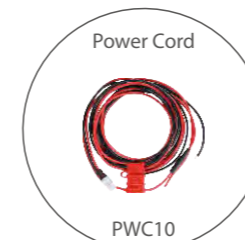Basic end-to-end Encryption secures your voice and data transmission.

ROAMING
It allows MD612i to be used in a large multi-site network.

ACCESSORIES

Diverse accessories
for specific tasks

STANDARD

- Power Cord — PWC10
- Mounting Bracket — BRK29
- Palm Microphone — SM11A1

OPTIONAL

- Programming Cable — PC109
- Bluetooth Ring PTT — POA121
- Antenna
- Foot Switch (external PTT) — POA44
- Remote Mount Kit — Coming soon
- Ignition Cable — PC60
- GPS Antenna — GPS04
- Power Supply — PS22002(L)
- External Speaker — SM09D1
- External GPS Module — POA134

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