



Digital Migration Radio MD625

- Analogue and Digital Dual Mode
- Clear Audio
- Emergency Call Button
- GPS and Bluetooth Option





PROFESSIONAL DEVICE, SIMPLE TO USE

- 
A&D AUTO DETECT
 Compatible with analogue conventional and digital conventional modes. This allows the MD625 to simultaneously monitor analogue and digital modes, automatically responding in each mode. This presents an easy solution when migrating from analogue to digital.
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POWERFUL COVERAGE
 With a high RF power output up to 50W, the MD625 can dramatically increase your communication range.
- 
GPS POSITIONING (Optional)
 With an external GPS module and GPS antenna, the MD625 can upload its real-time position to AVL applications.
- 
REMOTE CONTROL HEAD (Coming soon)
 The remote control head kit increases your installation options, offering flexible positioning for various vehicle types.
- 
ANALOGUE SIGNALING
 Supports DTMF and HDC1200 (Coming Soon) Signaling in analogue mode.
- 
DATA SERVICES
 MD625 supports data capabilities, such as call alias, contacts, history, text message.
- 
DOUBLE CAPACITY IN DIRECT MODE
 Based on DMR TDMA technology, you can have two voice calls simultaneously in direct mode.
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RELIABLE AND DURABLE
 The MD625 is compliant with MIL-STD-810 C/D/E/F/G and IP54.
- 
PSEUDO TRUNK
 Several talk groups share the same frequency and each of them can dynamically chose to use one of the slots to transmit. This is a two-slot trunked mode. While time-slot 1 is busy, the MD625 will use time-slot 2 to transmit.
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RADIO REGISTRATION SERVICE
 RRS allows the MD625 to work with SmartDispatch and SmartOne to show online/offline status.
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SUPPLEMENTARY FEATURES (Optional)
 The MD625 supports radio enable/disable, remote 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)
 With built-in Bluetooth 4.2, the MD625 can support wireless audio accessories and external PTT devices.
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PRIVACY
 Basic end-to-end encryption secures your voice and data transmission
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ROAMING
 Allows the MD625 to operate in a large multi-site network.

TARGET INDUSTRIES



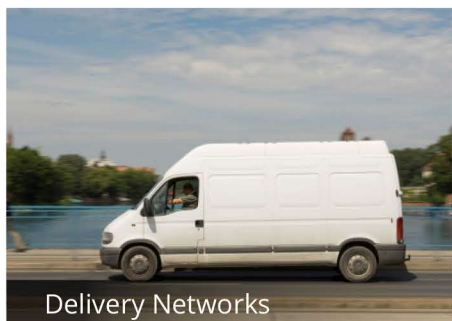
Transportation



Agriculture



Logistics



Delivery Networks



Utilities

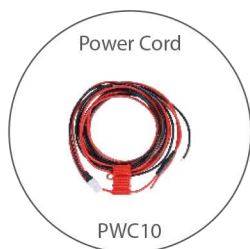


Emergency Services

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	Low Power Version	1W 25W
		High Power Version	5W 45W
Weight	1100g		
Dimensions (W × H × L)	164 X 43 X 150 mm		
Frequency stability	± 0.5 ppm		
Antenna impedance	50 Ω		
LCD display	128*64 pixels, monochrome, 1.5 inch, 2 rows		

Receiver

Sensitivity	Analogue	0.3 μV (12 dB SINAD) 0.22 μV (Typical) (12 dB SINAD); 0.4 μV (20 dB SINAD)
	Digital	0.3 μV/BER 5%
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	12.5 kHz (data only): 7K60FXD 12.5 kHz (data and 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++
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	C/D/E/F/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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