



## Digital Migration Radio MD615

- > 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 MD615 to simultaneously monitor analogue and digital modes, automatically responding in each mode. This presents an easy solution when migrating from analogue to digital.



### PSEUDO TRUNK

Several talk groups share the same frequency, and each one of them can dynamically choose to use one of the slots to talk. This is a two-slot-trunked mode. While time-slot 1 is busy, the MD615 will use time-slot 2 to transmit.



### POWERFUL COVERAGE

With a high RF power output up to 50W, the MD615 can dramatically increase your communication range.



### RADIO REGISTRATION SERVICE

RRS allows the MD615 to work with SmartDispatch and SmartOne to show online/offline status.



### GPS POSITIONING (Optional)

With an external GPS module and GPS antenna, the MD615 can upload its real-time position to AVL applications.



### SUPPLEMENTARY FEATURES (Optional)

The MD615 supports radio enable/disable, remote monitor and priority interrupt.



### REMOTE CONTROL HEAD (Coming soon)

The remote control head kit increases your installation options, offering flexible positioning for various vehicle types.



### EMERGENCY ALARM/CALL

Use the orange emergency button to initiate an emergency alarm and call to other radios.



### ANALOGUE SIGNALING

Supports DTMF and HDC1200 (coming soon) signaling in analogue mode.



### BUILT-IN BLUETOOTH (Factory Optional)

With built-in Bluetooth the MD615 can support wireless audio accessories and external PTT devices.



### DOUBLE CAPACITY IN DIRECT MODE

Based on DMR TDMA technology, you can have two voice calls simultaneously in direct mode.



### PRIVACY

Basic end-to-end encryption secures your voice and data transmission.



### RELIABLE AND DURABLE

The MD615 is compliant with MIL-STD-810 C/D/E/F/G and IP54.



### ROAMING (Optional)

Allows the MD615 to operate in a large multi-site network.



# TARGET INDUSTRIES



Transportation



Agriculture



Logistics



Delivery Network



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	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			
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 <sup>‡</sup>			
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 <sup>‡</sup>			
FM Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz <sup>‡</sup>			
Adjacent Channel Power	60dB @ 12.5KHz; 70dB @ 25KHz <sup>‡</sup>			
Audio Response	+1 ~ -3dB			
Audio Distortion	≤3%			
Digital Vocoder Type	AMBE++ or SELP			
Digital Protocol	ETSI-TS102 361-1,-2,-3			

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

RECEIVER			
Sensitivity	Analogue	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 <sup>‡</sup>	
	ETSI	60dB @ 12.5KHz / 70dB @ 25KHz <sup>‡</sup>	
Intermodulation	TIA-603	70dB @ 12.5/25KHz <sup>‡</sup>	
	ETSI	65dB @ 12.5/25KHz <sup>‡</sup>	
Spurious Response Rejection	TIA-603	70dB @ 12.5/25KHz <sup>‡</sup>	
	ETSI	70dB @ 12.5/25KHz	
Blocking	TIA-603	90dB	
	ETSI	84dB	
Hum and Noise	40dB @ 12.5KHz 45dB @ 25KHz <sup>‡</sup>		
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		
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		

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