



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-slot1 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



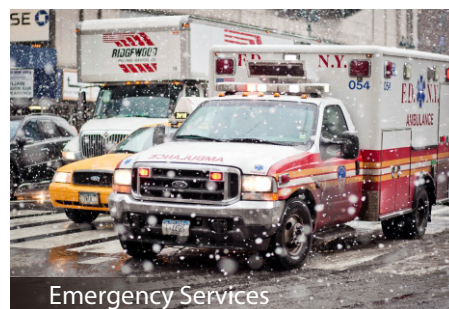
Logistics



Delivery Network



Utilities

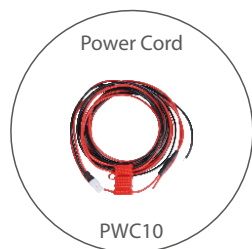


Emergency Services

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 [*]	
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++ or SELP	
Digital Protocol		ETSI-TS102 361-1,-2,-3	

^{*}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.

Your Hytera partner:



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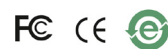
www.hytera.co.uk info@hytera.co.uk

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 [*]	
	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	
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	

Further information can be found at:

www.hytera.co.uk

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Hytera reserves the right to modify the product design and the specifications. In case of a printing error, Hytera does not accept any liability. All specifications are subject to change without notice.

Encryption features are optional and have to be configured separately. They are also subject to European export regulations.

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