Hytera

Digital Migration Radio
MD615

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

DMR
DIGITAL MOBILE RADIO ASSOCIATION

www.hytera.co.uk

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.

POWERFUL COVERAGE

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

GPS POSITIONING (Optional)

With an external GPS module and GPS antenna, the MD615 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.

DOUBLE CAPACITY IN DIRECT MODE

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

RELIABLE AND DURABLE

The MD615 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 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.

RADIO REGISTRATION SERVICE

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

SUPPLEMENTARY FEATURES (Optional)

The MD615 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 the MD615 can support wireless audio accessories and external PTT devices.

PRIVACY

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

ROAMING (Optional)

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

TARGET INDUSTRIES

Transportation

Agriculture

Logistics

Delivery Network

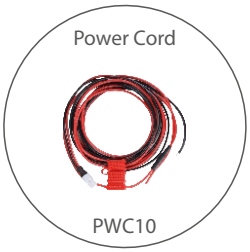
Utilities

Emergency Services

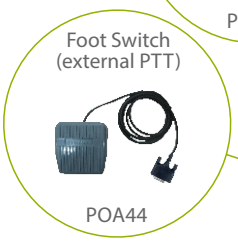
ACCESSORIES

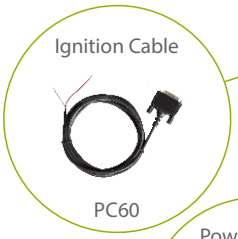
Diverse accessories for specific tasks

STANDARD



OPTIONAL





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

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℃~ +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.

Your Hytera partner:

Danimex™
WHEN YOU NEED TO TALK

Danimex Communication A/S
Elholm 4, DK-6400 Sønderborg Denmark
+45 73 42 56 00
danimex@danimex.com

www.danimex.com

Further information can be found at:
www.hytera.co.uk

Keep up to date with Hytera on social media.

Hytera
Respond & Achieve

Hytera Communications Corporation Limited

Address: Hytera Communications (UK) Co. Ltd.
Hytera House, 939 Yeovil Road, Slough, Berkshire. SL1 4NH, UK.
Tel: +44 (0) 1753 826 120 **Fax:** +44 (0) 1753 826 121
www.hytera.co.uk **info@hytera.co.uk**

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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