Hytera

Digital Migration Radio
MD615

> Analogue and Digital Dual Mode > Clear Audio

> Emergency Call Button > GPS and Bluetooth Option

DMR
DIGITAL MOBILE RADIO ASSOCIATION

CHANNEL UP/DOWN

VOLUME UP/DOWN

EMERGENCY BUTTON

POWER ON/OFF

AUDIO/ PROGRAMMING PORT

INTERNAL SPEAKER

PROGRAMMABLE BUTTONS

GPS CONNECTION PORT

RF ANTENNA CONNECTION PORT

DB26 ACCESSORIES PORT

DC POWER SUPPLY REQUIRED

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

Power Cord

PWC10

Mounting Bracket

BRK29

Palm Microphone

SM11A1

Programming Cable

PC109

Bluetooth Ring PTT

POA121

Antenna

Foot Switch (external PTT)

POA44

OPTIONAL

Remote Mount Kit

Coming soon

Ignition Cable

PC60

GPS Antenna

GPS04

Power Supply

PS22002(L)

External Speaker

SM09D1

External GPS Module

POA134

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:

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

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Respond & Achieve

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