Hytera
Respond & Achieve

Digital Migration Radio
MD625

- Analogue and Digital Dual Mode
- Emergency Call Button
- Clear Audio
- 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 MD625 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 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.

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.

RADIO REGISTRATION SERVICE
RRS allows the MD625 to work with SmartDispatch and SmartOne to show online/offline status.

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.

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

ROAMING
Allows the MD625 to operate in a large multi-site network.

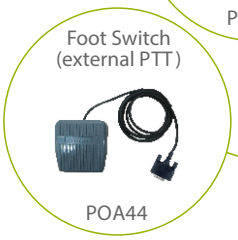
TARGET INDUSTRIES

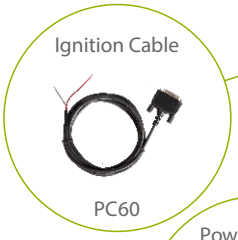
ACCESSORIES

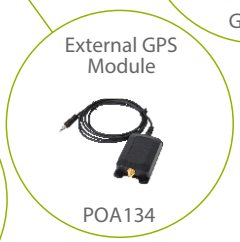
Diverse Accessories
for Specific tasks

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			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	<3A
			25W	<8A
		High Power Version	5W	<5A
			45W	<12A
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.

Your Hytera partner:

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

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