



## Digital Migration Radio MD625

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





## PROFESSIONAL DEVICE, SIMPLE TO USE

- A/D 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.
- DOUBLE CAPACITY IN DIRECT MODE**  
Based on DMR TDMA technology, you can have two voice calls simultaneously in direct mode.
- 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.
- RRS 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.
- SOS 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



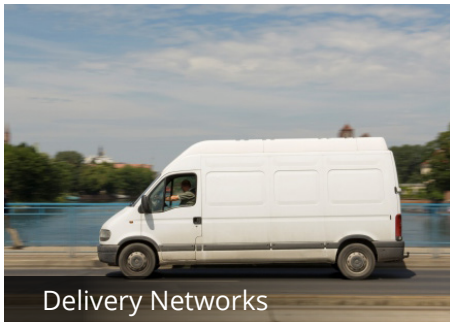
Transportation



Agriculture



Logistics



Delivery Networks



Utilities

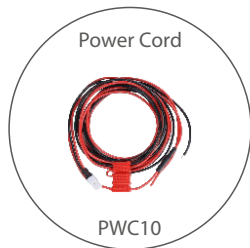


Emergency Services

## 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	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
		High Power Version	5W	<5A
		25W	<8A	
		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		

Your Hytera partner:



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### 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.

Further information can be found at:

[www.hytera.co.uk](http://www.hytera.co.uk)

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

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