

# MD652 Digital Mobile Radio



- Compact design enables it to be put in any location with ease
- User-Friendly Microphone with Programmable Buttons and Display





**MD652** 

The MD652 is specifically designed with safety and ease-of-operation in mind, providing safe and reliable communications for numerous applications across various industries like Logistics, Taxi, Fleet, Agricultural, Construction and Tow-Trucks. This radio's compact design enables it to be put in any location with ease without obstructing view or movement within the vehicle. Extended features like programmable text, emergency, telemetry, and GPS (optional) can be used to communicate within the radio fleet or to a dispatch station.

## **Applications**

Taxi Fleet Agricultural Tow Truck Construction













## **Product Features**

#### Lightweight, Sleek, & Stylish

Only 6.5 x 1.81 x 5.5 inches in size and weighs a mere 2.31lbs (including smart microphone).

#### **Reliable Ouality**

MD652 is compliant with the stringent MIL-STD-810 C/D/E/F/G and IP54 standards, ensuring outstanding performance even in harsh environments.

#### Remote Control

All operations are done via the microphone and are easy to use and

#### Selectable RF Power Output

Continuously adjustable from 1W to 25W.

#### **Superior Voice Quality**

Uses narrowband codec and digital error-correction technologies for superior voice clarity in noisy environments or at the edge of the coverage area. Also includes AGC technology for optimizing voice input and output.

#### **Advanced Signaling**

Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

#### **Versatile Services**

In addition to conventional communication services, MD652 features rich data services and selectable functions such as: Text Message, Telemetry, Emergency, OTAP and optional GPS.

#### GPS Positioning (Factory Option)

The built-in GPS module in the MD652G supports GIS applications.



In DMO mode, Hytera provides 2-slot communication which allows for two talk channels on a single frequency.

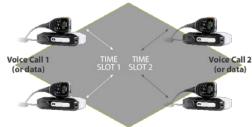
Slot 1 is used for voice call, Slot 2 is used for voice call 2



#### **Dual-slot Pseudo Trunk**

With this feature, a free time slot can be allocated to a member who needs to communicate urgently, effectively enhancing frequency efficiency and allowing timely communication in emergency situations.

Slot 1, Slot 2 are automatically assigned to voice call 1 or voice call 2





## **Accessories**

#### Included

- · Remote Speaker Microphone
- Microphone Hanger
- Power Cord
- Mounting Bracket
- Fuse



**External Speaker** Microphone SM09D1



GPS Antenna (optional) GPS04



**Programming Cable** (USB Port) PC37



Foot Switch (External PTT) POA44

## **Specifications**

	Frequency Range		VHF: 136 - 174MHz UHF1: 400 - 470MHz	
	Channel Capacity		1024	
	Zone Capacity (each with a maximum of 16 channels)		64	
	Channel Spacing		25 / 20 / 12.5KHz	
	Operating Voltage		13.6V ±15%	
	Current Drain	Stand By	< 0.6A	
eLa		Receive	< 2.0A	
General		Transmit	1W: <3A ; 25W: <8A	
	Frequency Stability		±0.5ppm	
	Antenna Impedance		50 Ω	
	Dimensions (HxWxD)	6.	6.5 x 1.81 x 5.5 inches	
	Weight		2.31lbs	
	FCC ID	Se	See website for full list	
	Industry Canada ID	Se	See website for full list	
	Operating Temperature		-22° F ~ +140° F	
Environmental Specs	Storage Temperature		-40° F∼ +185° F	
	ESD		IEC 61000 - 4 - 2 (level 4) ±8kV(contact); ±15kV (air)	
	American Military Standard	МІ	MIL-STD-810 C/D/E/F/G	
	Dust & Water Intrusion		IP54 Standard	
	Humidity	Per MIL-S	Per MIL-STD-810 C/D/E/F/G Standard	

TTFF (Time To First Fix) Cold Start	<1 minute
TTFF (Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy	<10 meters

Per MIL-STD-810 C/D/E/F/G Standard

tter	RF Power Output	1-25W	
	FM Modulation (Analog Emissions Designator)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K6φFXD 12.5KHz Data & Voice: 7K6φFXW	
	Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz	
	Modulation Limiting	± 2.5KHz @ 12.5KHz ; ± 4.0KHz @ 20KHz ; ± 5.0KHz @ 25KHz	
Transmitter	FM Hum & Noise	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz	
Tran	Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 20/25KHz	
	Audio Response	+1 ~ -3dB	
	Audio Distortion	≤3%	
	Digital Vocoder Type	AMBE++ or SELP	
	Digital Protocol	ETSI-TS102 361-1, 2&3	

Receiver	Sensitivity	Analog	0.3 μ V (12dB SINAD) ; 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD)	
		Digital	0.3 μ V/BER5%	
	Selectivity TIA-603 ETSI	65dB @ 12.5KHz / 75dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz		
	Intermodulation TIA-603 ETSI	75dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz		
	Spurious Response Rejection TIA-603 ETSI	75dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz		
	Blocking TIA-603 ETSI	90dB 84dB		
	S/N	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz		
	Rated Audio Distortion	≤3%		
	Audio Response	+1 ∼ -3dB		
	Conducted Spurious Emission		<-57dBm	

#### Your Local Dealer

For more information, please contact

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20 KHz / 25 KHz will not be available on new equipment in the U.S. after January 1st , 2011

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Shock & Vibration







