

General	Frequency Range	VHF: 136 - 174MHz UHF: 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	
		Receive	< 2.0A	
		Transmit	1W: <3A ; 25W: <8A	
	Frequency Stability	± 0.5ppm		
	Antenna Impedance	50 Ω		
Dimensions (HxWxD)	6.5 x 1.81 x 5.5 inches			
Weight	2.31lbs			
FCC ID	See website for full list			
Industry Canada ID	See website for full list			

Environmental Specs	Operating Temperature	-22° F ~ +140° F
	Storage Temperature	-40° F ~ +185° F
	ESD	IEC 61000 - 4 - 2 (level 4) ± 8KV(contact) ; ± 15KV (air)
	American Military Standard	MIL-STD-810 C/D/E/F/G
	Dust & Water Intrusion	IP54 Standard
	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

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



## Hytera America

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Transmitter	RF Power Output	1-25W	
	FM Modulation (Analog Emissions Designator)	11KφF3E @ 12.5KHz; 14KφF3E @ 20KHz; 16KφF3E @ 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	
	FM Hum & Noise	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz	
	Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 20/25KHz	
	Audio Response	+1 ~ -3dB	
	Audio Distortion	≤ 3%	
	Digital Vocoder Type	AMBE+2™	
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	

# i SERIES

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

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EN20181113B



Digital Mobile Radio

# MD652 i SERIES



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





# MD652 iSERIES

The MD652i 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

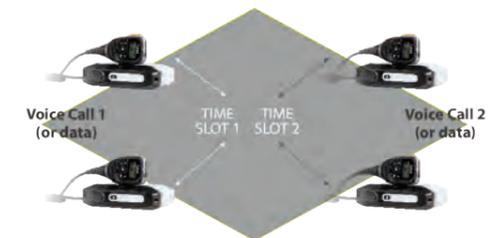
Taxi      Fleet      Agricultural      Tow Truck      Construction



## Product Features

- Over-the-air- Alias**  
 MD652i can support sending radio alias over the air when PTT. The radio receives the call can decide to create a new contact or overwrite the old one automatically. It gives a great convenience to the customer to manage the fleet with the correct contact stored in each radio without touching each unit for programming.
- OTAP**  
**OTAP for Conventional Repeater System:**Over the Air Programming modifies the parameters of remote terminals through the air interface signaling, including digital conventional channel parameters and part parameters of the terminal. It saves time and manpower to operate and maintain a radio system.
- Enhanced Quick GPS**  
 Compressed GPS data can be packaged in a single frame to greatly increase the capacity up to 450 units/min, which is tripled in DMR Tier II system. This enhancement improves channel efficiency for data and reduce hardware cost.
- Trunked & Conventional Switch**  
 By pressing a single button or twisting the channel knob, it enables radios to be switched between trunking and conventional mode without restarting. During this process, registration & deregistration in trunking system is done automatically, and over the air authentication is still available.
- Optimized Push-to-talk**  
 It allows a radio to set up audio buffer and store what the user speaks before the call is established. Then it sends the stored audio together with the coming real-time audio after the call is established. Therefore, users can talk right after pressing PTT without waiting for the "go-ahead tone". This feature also enhances the handover function without dropping communications in Tier III system during sites switch.
- Secure Communication**  
 Allows basic/advanced end-to-end encryption and over the air encryption in digital mode. Allow scrambler feature in analog mode.
- Out-of-range Notification in RMO**  
 A radio is always notified when it has left the repeater coverage. The users can realize if they are in the talk range all the time by paying attention to the alert tone.

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

Optional



External Speaker Microphone SM09D1



GPS Antenna (optional) GPS04



Programming Cable (USB Port) PC37



Foot Switch (External PTT) POA44

See website for full list