



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

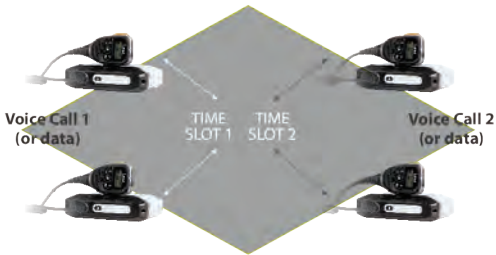
Construction



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

<div>Included</div> <ul style="list-style-type: none"> Remote Speaker Microphone Microphone Hanger Power Cord Mounting Bracket Fuse 	Optional				
		 <div>External Speaker Microphone SM09D1</div>	 <div>GPS Antenna (optional) GPS04</div>	 <div>Programming Cable (USB Port) PC37</div>	 <div>Foot Switch (External PTT) POA44</div>

Specifications

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



Hytera America

3315 Commerce Parkway, Miramar, FL 33025, United States
Telephone: +1(954)846-1011

8 Whatney, Suite 200, Irvine, CA 92618, United States
Telephone: +1(949)326-5740

1916 Wright Boulevard, Schaumburg, IL 60193, United States
Telephone: +1 (213) 262-3578

Transmitter	RF Power Output	1-25W
	FM Modulation (Analog Emissions Designator)	11K φF3E @ 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™
Receiver	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	

Hytera Authorized Dealer:
Alpha Prime Communications
Sales . Rentals . Service
1808 Janke Drive, Suite E
Northbrook, IL 60062 USA
847-298-4000 . service@alphaprimecomm.com



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

Hytera reserves the right to change product designs or specifications at any time. If you have any questions regarding the accuracy of this information please contact your local sales representative or Hytera directly.

HYT, Hytera are registered trademarks of Hytera Co., Ltd. © 2013 Hytera Co., Ltd. All rights reserved.

EN20181113B