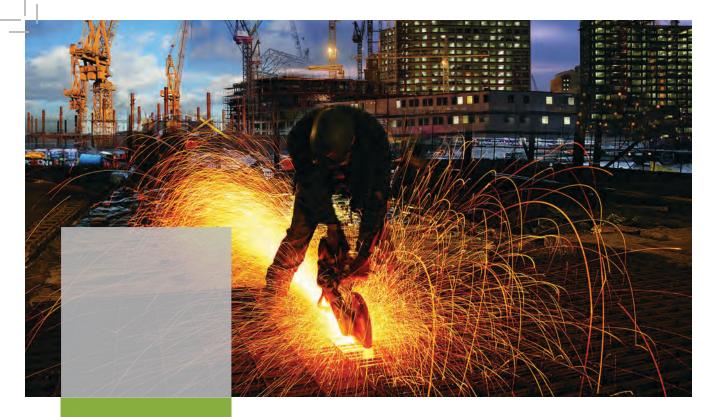


Optional Embedded Duplexer and Ruggedness for Outside Use





RD962 SERIES RD962i is a digital / analog portable repeater that is compatible with the DMR standard. This device is compact for easy transport and can be embedded with an optional mini duplexer. It supports a range of power supply options to guarantee uninterrupted communications during emergencies. Its API and 100 Mbps network port combine to support an extended array of applications. The device provides IP67 protection, making it reliable in harsh operating environments.

Applications

Events

Public Safety Forestry Firefighters Rescue Teams Construction

| Public Safety | Forestry | Firefighters | Rescue Teams | Public Safety | Publ

Product Features

Slim and Portable

With its compact design, the RD962i measures only 1 3/5th inches and weighs less than 6.62 lbs. The device can also have an optional embedded mini duplexer inside.

External Battery

With an optional external large-capacity battery, the device delivers an extended battery life to guarantee uninterrupted communications.

Emergency Power Port

The port allows for power connection in emergencies.

IP67 Protection

Compatible with the IP67 standard for water and dust protection, the device can operate properly when wet and dirty (tested in 1 meter of water for 30 minutes).

Reliable and Durable

Compatible with the American military standard MIL-STD-810 C/D/E/F/G and HALT verified, the device can perform excellently in harsh operating environments.

User-friendly Panel

The operating panel provides a wide range of status indicators, a button for channel adjustment, and a port for palm microphone or remote speaker microphone.

Over-the-air Signaling Encryption

For secure communications, RD982i supports over-the-air encryption to protect the signaling frames of both voice and data services.





Accessories

Smart Battery (optional)

A 10Ah smart Li-lon battery can support at least eight hours of work when working at 50% duty cycle and high TX power. Compatible with the smbus1.1 standard, RD962i can monitor battery conditions such as estimated remaining capacity, used capacity percentage, and usage record. The device can also maximize the battery life through smart charge management, it can automatically recharge the battery for use anytime. Powered by three levels of battery protection, the device considerably enhances charging safety and reliably.

Repeater Diagnostics and Control

Through a PC-based application, the system administrator can remotely diagnose and control (connected to the Internet via an IP port) and local repeaters (via a USB port). Hytera's RDAC software supports network access at multiple points and allows the administrator to monitor networked two-way radios.

• Voice Input/output via Dual Time Slots

In digital mode, the device supports voice input and output via dual time slots and enables calls continuous call recording.

Digital / Analog Smart Switching

Back to back interconnection of digital & analog network can be achieved by wired or wireless IP, ensuring a smooth analog-to-digital transition and smart switching between networks.

Flexible Networking

By connecting geographically distributed repeaters that run at the same or different frequencies to form an IP-based and location-independent wireless communication network, IP-based repeater interconnection allows mobile radios to obtain voice and data services while roaming.

• 16 Channels

This product supports up to 16 channels. You can switch between channels using PC based RDAC software, the channel selector knob on the front panel, or the external interface on the repeater.

Digital-analog Interconnection

This feature enables two-way radios with digital and analog radio fleets, and digital and analog users to intercommunicate in different operating modes to guarantee users' seamless transition from analog to digital capabilities.

• GPS

The GPS module supports GPS data transmission and enables emergency command centers to monitor the location of a small mobile network in real time.

• Out-of-range Notification

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.



Waterproof Remote Speaker Microphone (IP67) SM18A1



Multi-Functional Installation Bracket BRK17



Power Adapter for Portable Repeater PS7502



Power Management System PV3001

Specifications

	Frequency range		VHF: 136 - 174MHz UHF1: 400 - 470MHz ; UHF3: 350 - 400MHz		
	Channel Capacity		16		
	Channel Spacing		25 / 20 / 12.5KHz		
	Operating Voltage		DC: 13.6 V ± 15% Battery: 14.8V		
	Current Drain	Standby	<0.5A		
		Transmit	<2.5A		
	Battery		10Ah (Li-lon)		
eral	Battery Life (50-50 Duty Cycle, High TX Power)		8hrs		
Genera	Frequency Stability		±0.5ppm		
	Antenna Impedance		50 Ω		
	Duty Cycle		100%		
	Dimensions (HxWxD)	with protective shell	11.85 x 7.24 x 2 inches		
		with no protective shell	11.45 x 6.77 x 1.62 inches		
	Weight		6.61 lbs		
	FCC ID		136-174MHz: YAMRD962iVHF 400-470MHz: YAMRD962iU1		
	Industry Canada ID		138-174MHz: 8913A-RD962iVHF 406.1-470MHz: 8913A-RD962U1		
suo	Operating Temperature		-22° F ~ +140° F		
cati	Storage Temperature		-40° F∼ +185° F		
pecif	ESD		IEC 61000 - 4 - 2 (level 4) ±8kV(contact) ±15kV (air)		
ral S	American Military Standard		MIL-STD-810 C/D/E/F/G		
ronmental Specifications	Dust & Water Intrusion		IP67 Standard		
iron	Humidity		Per MIL-STD-810 C/D/E/F/G Standard		
E	Shock & Vibration		Per MIL-STD-810 C/D/E/F/G Standard		
	TTFF (Time To First Fix) Cold Start		<1 minute		
GPS	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

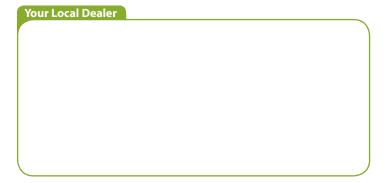
Telephone: +1(949)326-5740

1916 Wright Boulevard, Schaumburg, IL 60193, United States

Telephone: +1 (213) 262-3578

	RF Power Output	1-10W (adjustable)		
Transmitter	FM Modulation (Analog Emissions Designator)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz		
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K6 FXD 12.5KHz Data & Voice: 7K6 FXW		
	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 TM		
	Digital Protocol	ETSI-TS102 361-1, 2&3		

	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%	
Receiver	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		





 $20 \text{KHz}\,/\,25 \text{KHz}$ will not be available on new equipment in the U.S. after January 1^{st} , 2011

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

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