





- DMR & Analog Auto Switching
- 3 in 1 Integrated Repeater: RF, Power Supply, & Optional Duplexer







An indoor DMR and Analog dual mode repeater in a compact design, embedded with a power supply and optional mini duplexer. Its innovative design enables it to easily support wallmount installation with AC/DC power. Multiple sites can connect via IP along with the RD982i to support flexible wide area and large building coverage. Integration with Hytera Dispatch System or other 3rd party GPS dispatching software can be achieved by the RJ45 port in the side of the repeater.

Applications



Product Features

All-In-One Compact Design

Compact design, integrates RF, power supply, and optional duplexer into one box, which makes the RD622i smaller, lighter, and easier for wall-mount installation and indoor coverage (wall-mount bracket sold seperately BRK21).

• Multi CTCSS / CDCSS Decode

Decoding up to a maximum of 16 CDCSS/CTCSS codes in Analog channels allowing coverage for different Analog voice users from various groups.

Repeater Access Management

A repeater access control feature allowing better security to prevent unauthorized users from accessing the radio network.

Analog Scan

Analog voice and signaling scan, allowing coverage of different analog voice users from various groups.

• AC / DC Auto Switch

The integrated power supply provides float charging for a backup battery. If the AC power fails, the DC power (battery) automatically takes over without interruption.

Interoperability

Two repeaters can be interconnected to provide interoperability between UHF and VHF. A single repeater can auto switch between Analog and Digital mode, allowing for efficient frequency sharing between Analog and Digital users and an easy digital migration.

• Digital Audio Streaming of Dual Time Slots

The streaming of both the voice slots via the rear port accessory pins, allowing for capability expansion via future development and recording of communications via Hytera Dispatch System. See example below.

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



Accessories









See website for full list

Mounting Bracket BRK21

V AC Power Cord PWC03

Programming Cable (USB Port) PC40



V DC Power Cord PWC06

Repeater Diagnostic And Control (RDAC)

Remote IP connection to monitor, diagnose, and control the repeater thus increasing maintenance efficiency. The Hytera developed RDAC is able to support multiple master network connections to allow the radio administrator to monitor multiple radio networks.

• Multiple Sites via IP

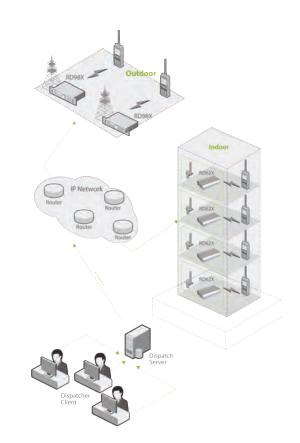
Network connection via the IP port of the repeater to form a private radio network to meet data and voice communication needs for wide-area coverage and dispersed locations. See example below.

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.

Out-of-range Notification

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.



Specifications

General	Frequency Range	VHF: 136 - 174MHz UHF1: 400 - 470MHz		
	Channel Capacity	16		
	Channel Spacing	25 / 20 / 12.5KHz		
	Operating Voltage	13.6 V DC \pm 15% ; 90-264V AC		
	Current Drain	Standby	≤0.5A	
		Transmit	≤5.5A	
	Frequency Stability	±0.5ppm		
	Antenna Impedance	50 Ω		
	Duty Cycle	100%		
	Dimensions (HxWxD)	11.85 x 7.24 x 2 inches		
	Weight	6.61 lbs		
	FCC ID	See website for full list		
	Industry Canada ID	See website for full list		
N	Operating Temperature		-22°F ~ +140°F	
tion		-22 F ~ TI40 F		
Environmental Specifications	Storage Temperature	-40° F~ +185° F		
	ESD	N/A		
	American Military Standard	N/A		
	Dust & Water Intrusion	N/A		
	Humidity	N/A		
	Shock & Vibration	N/A		

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Transmitter	RF Power Output	1-25W (continuous)	
	FM Modulation (Analog Emissions Designator)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7КбфFXD 12.5KHz Data & Voice: 7КбфFXW	
	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	

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

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