

# RD622

Indoor Wall Mount Repeater



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





## RD622

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 wall-mount installation with AC/DC power. Multiple sites can connect via IP along with the RD982 to support flexible wide area and large building coverage. Integration with Hytera SmartDispatch or other 3rd party GPS dispatching software can be achieved by the RJ45 port in the side of the repeater.

## Applications

Hotel

Malls

Hospital

Education

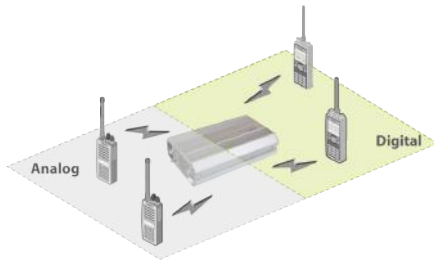
Security

Property Management

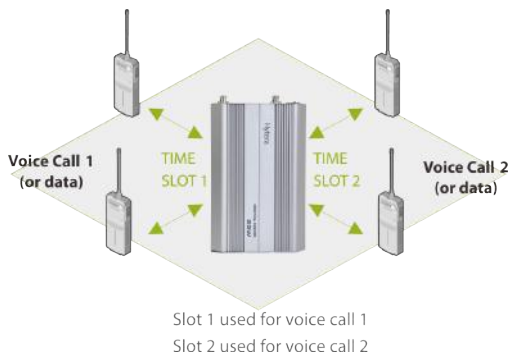


# Product Features

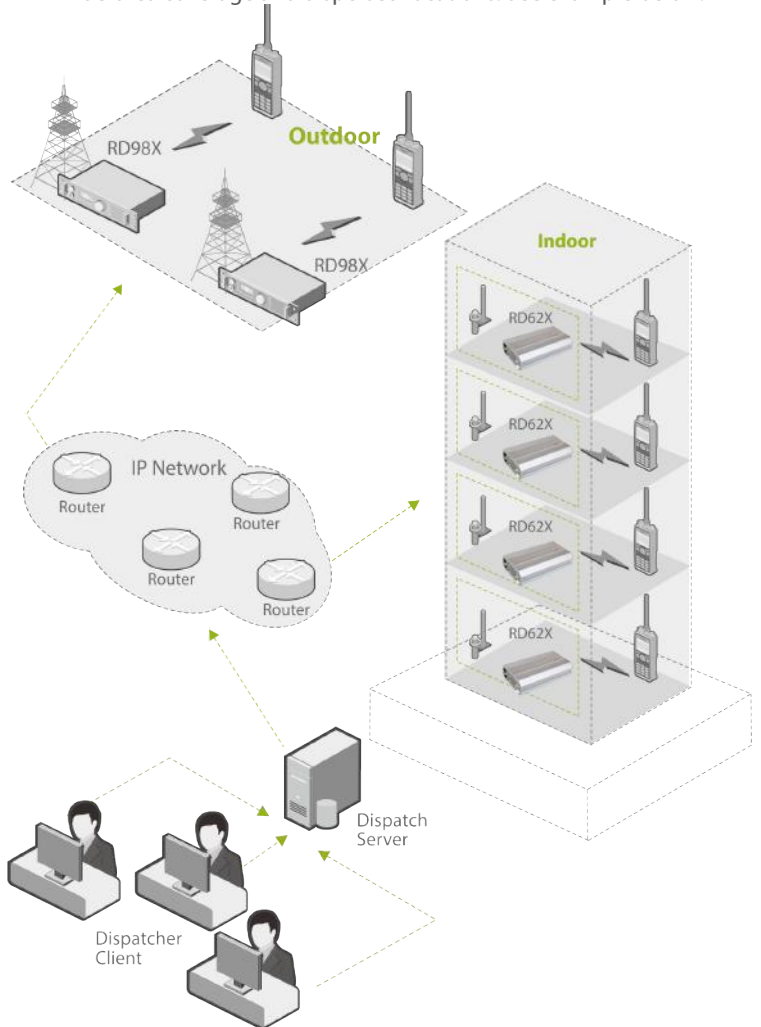
- All-In-One Compact Design**  
 Compact design, integrates RF, power supply, and optional duplexer into one box, which makes the RD622 smaller, lighter, and easier for wall-mount installation and indoor coverage.
- Multi CTCSS/CDCSS Decode**  
 Decoding up to a maximum of 16 CDCSS/CTCSS codes in Analog 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.
- 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. See example below.



- 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 SmartDispatch. See example below.

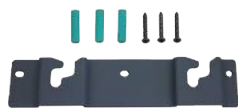


- Repeater Diagnostic And Control (RDAC)**  
 Remote IP connection to monitor, diagnose, and control the repeater thus increasing maintenance efficiency. The Hytera developed RDAC is able to support multiple master network connections to allow the radio administrator to monitor multiple radio networks.
- AC / DC Auto Switch**  
 Integrates an internal power supply that supports a battery floating charge. The power supports 13.6V±15% DC and 90V-264V AC. If the AC power is cut off, the DC power (battery) automatically takes over without interruption.
- 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.



# Accessories

Optional



Mounting Bracket BRK21



V AC Power Cord PWC03



Programming Cable (USB Port) PC40



V DC Power Cord PWC06

See website for full list

# 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	$\leq$ 0.5A	
		Transmit	$\leq$ 5.5A	
	Frequency Stability	$\pm$ 0.5ppm		
	Antenna Impedance	50 $\Omega$		
	Duty Cycle	100%		
	Dimensions (HxWxD)	11.85 x 7.24 x 2 inches		
	Weight	6.61 lbs		
	FCC ID	TBA		
	Industry Canada ID	TBA		

Environmental Specifications	Operating Temperature	-22° F ~ +140° F
	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

Transmitter	RF Power Output	1-25W (continuous)
	FM Modulation (Analog Emissions Designator)	11K $\phi$ F3E @ 12.5KHz; 14K $\phi$ F3E @ 20KHz; 16K $\phi$ F3E @ 25KHz
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K $\phi$ FXD 12.5KHz Data & Voice: 7K $\phi$ FXW
	Conducted/Radiated Emission	-36dBm < 1GHz -30dBm > 1GHz
	Modulation Limiting	$\pm$ 2.5KHz @ 12.5KHz; $\pm$ 4.0KHz @ 20KHz; $\pm$ 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	$\leq$ 3%
	Digital Vocoder Type	AMBE++ or SELP
	Digital Protocol	ETSI-TS102 361-1, 2&3

Receiver	Sensitivity	Analog	0.3 $\mu$ V (12dB SINAD) ; 0.22 $\mu$ V (Typical) (12dB SINAD); 0.4 $\mu$ V (20dB SINAD)
		Digital	0.3 $\mu$ 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	$\leq$ 3%	
	Audio Response	+1 ~ -3dB	
	Conducted Spurious Emission	< -57dBm	

## Your Local Dealer

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