



RD982

Digital Dual-Mode Repeater
with Display & Programmable Keys



As a professional repeater built to the DMR standard, the RD982 brings you a NEW cutting edge technology at an exceptional value backed by a 3 year manufacturer's warranty. The RD982's dual-mode auto-detection ensures your business will have a smooth transition from the analog to the digital era.



Clear Digital Communications Using DMR Technology

Large Color LCD Allows for a Full View of Messages & Alerts

Narrow-Band Compliant with the FCC 2013 Mandate

Smart Analog/Digital Detection Allows for Easy Migration



Hytera
Digital Value is Here



Product Highlights



Dual-Mode Auto-Detect

The repeater supports digital and analog modes. It can automatically detect the mode based on the type of received signal.

TDMA Technology

The application of Time Division Multiple Access (TDMA) technology greatly enhances spectrum efficiency, which allows twice (2:1) the amount of users compared to traditional FDMA technology.

This new technology can not only save operational costs, but also relieves the stress on our decreasing spectrum resources.



128-Bit Encryption

The advanced 128-bit encryption technology can secure your communication and ensure enhanced privacy.

Advanced Heat Dissipation

The unique cooling design combined with a built-in heat sink and a temperature-controlled fan ensure quick heat dissipation. This enables the repeater to work normally even at full power.



Innovative LED Design

The innovative LEDs and the 2.0" HD color display convey the repeater status clearly even in bright environments.

Remote Diagnostics

With the management software, you can remotely monitor and diagnose a repeater. In addition, you can either record or play back the audio freely in digital mode.

IP Connectivity

Ability to connect multiple repeaters on a single-site application or a multi-site wide area network.

Mechanical Design Features

2RU

Standard 19", 2RU Rack-Mount Design, Compatible with Desktop Housing as Well

LED

Colored LEDs for Clear Status Indication



Advanced Heat Sink Design with Thermal-Controlled Cooling Fan



Ergonomic Grip Design Makes Handling Easier



Programmable Buttons for Customized Application



2.0" TFT LCD with Menu Navigation & Control Knob



Internal Installation for Mobile Duplexer

Standard Accessories



Power-PWC11

Optional Accessories

							
Palm Microphone SM16A1	Palm Microphone SM16A1	Desktop Microphone SM10A1	Antenna	Directional Antenna	Duplexer Installation Kit (For Dt11)	Rack Mount Power Supply SEC-1223R1	Installation Kit (for Rack Mount Power Supply) BRK12

Specifications

General	
Frequency Range	UHF: 400-470MHz VHF:136-174MHz
Channel Capacity	16
Channel Capacity	25/20/12.5 kHz
Operating Voltage	13.6±15% V DC
Current Drain	Current Drain
	Transmit
Transmit	±1ppm
Antenna Impedance	50Ω
Duty Cycle	100%
Dimensions (WxHxD)	483 X 88 X 366 mm / 19.02 X 3.46 X 14.4 in.
Weight	8.5 Kg / 18.7 lbs.
LCD Display	220X176 pixels; 262,000 colors

Receiver	
Sensitivity(Analog)	0.3μV (12dB SINAD)
	0.22μV (Typical) (12dB SINAD)
	0.4μV (20dB SINAD)
Sensitivity(Digital)	0.3μV/BER5%
Blocking	100dB
Adjacent Channel Selectivity	65dB @ 12.5 kHz / 75dB @ 20/25 kHz
Intermodulation	75dB
Spurious Response Rejection	85dB
S/N	40dB @ 12.5 kHz
	43dB @ 20 kHz
	45dB @ 25 kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	3%
Audio Response	+1~-3 dB
Conducted Spurious Emission	-57 dBm

Transmitter	
RF Power Output	5-50W(Continuous)
FM Modulation	11KφF3E @ 12.5 kHz
	14KφF3E @ 20 kHz
	16KφF3E @ 25 kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K6φFXD 12.5kHz Data+Voice: 7K6φFXW
Conducted/Radiated Emission	-36dBm <1GHz -30dBm >1GHz
Modulation Limiting	±2.5kHz @ 12.5 kHz
	±4.0 kHz @ 20 kHz
	±5.0kHz @ 25 kHz
FM Noise	40dB @ 12.5 kHz
	43dB @ 20 kHz
	45dB @ 25 kHz
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25KHz
Audio Response	+1 ~ -3dB
Audio Distortion	3%
Digital Vocoder Type	AMBE++/SELP

Environmental Specifications		
Operating Temperature	-30°C ~ +60°C	-22°F ~ +140°F
Storage Temperature	-40°C ~ +85°C	-40°F ~ +185°F

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.



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