



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



Desktop Microphone SM10A1



Antenna



Directional Antenna



Duplexer Installation Kit (For-D11)



Rack Mount Power Supply SEC-1223R1



Installation Kit (for Rack Mount Power Supply) BRK1Z

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% VDC
Current Drain	1.2A
Transmit	12A
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.



Hytera Communications Corporation Limited
www.hytera.us

Distributed by: **HYT America**

3315 Commerce Parkway, Miramar, Florida 33025
 Tel: 800-845-1230 Fax: 954-846-1672

Hytera™ is the trademark of Shenzhen HYT Science & Technology Co., Ltd.
 © 2010 Hytera Co., Ltd. All Rights Reserved.

HYT retains the right to change the product design and specifications. Should any printing mistake occur, HYT will not bear relevant responsibility. Some slight differences between the actual product and the product indicated by these printed materials may occur.

Your Authorized Dealer:

