



RD985

Powerful Digital Repeater

As a professional repeater built to the DMR standard, RD985 integrates user concerns and actual requirements. Powerful digital feature, remarkable service quality and considerate ergonomic design. It will refresh your communication experience!



- Smart A/D Detection, Smooth Migration
- · Outstanding Reliability









Product Features >>



Smart Analog & Digital Auto Detection

This repeater supports digital and analog modes. It can smartly select the right one based on the type of received signal, allowing you to enjoy digital delights with ease.

Advanced TDMA Technology

The application of Time Division Multiple Access (TDMA) technology greatly enhances spectrum efficiency, which allows twice the user compared with that of traditional FDMA. Obviously, this can not only save your cost in infrastructure and frequency license, but also relieve the pressure of increasing shortage in spectrum resources.



128-bit Digital Encryption

The advanced 128-bit encryption technology can secure your communication from being eavesdropped.

Outstanding Reliability

The unique seatsink design combining a builtin heat pipe and a temperature-controlled fan ensures quick heat dissipation, enabling the repeater to work normally even with full power.



Handy Management Service

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.

Innovative LED Design

The innovative LED and the 2.0" HD color display would deliver you the repeater status clearly, as well as a pleasing visual experience.

Features >>



Standard Accessories >>



Optional Accessories >>

















Palm Microphe

n Microphone Desk SM16A1

Omnidirect

Directional Anten

Duplexer Installation Kit (Apply to Hytera-approved

ktop Power Supply (300

ack-mount Installation Kit(For Ps22002 only)

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	Standby	1.2A
	Transmit	12A
Frequency Stability		± 1ppm
Antenna Impedance		50 Ω
Duty Cycle		100%
Dimensions (W×H×D)		483 X 88 X 366 mm
Weight		8.5 Kg
LCD Display		220X176 pixels; 262,000 colors
Receiver		
Sensitivity(Analog)		0.3 μ V (12dB SINAD) 0.22 μ V (Typical) (12dB SINAD) 0.4 μ V (20dB SINAD)
Sensitivity(Digital)		0.3 μ V/BER5%
Blocking		100dB
Adjacent Channel Selectivity TIA-603 ETSI		65dB @ 12.5 kHz / 75dB @ 20/25 kHz 65dB @ 12.5 kHz / 75dB @ 20/25 kHz
Intermodulation TIA-603 ETSI		75dB@12.5/20/25KHz 70dB@12.5/20/25KHz
Spurious Response Rejection TIA-603 ETSI		85dB@12.5/20/25KHz 80dB@12.5/20/25KHz
Hum and Noise		40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz
Rated Audio Power Output		0.5W
Audio Distortion		3%
Audio Response		+1 ~ -3 dB
Conducted Spurious Emission		–57 dBm

Transmitter			
	Transmitter		
RF Power Output	5-50W (Continuous)		
FM Modulation	11K Φ F3E @ 12.5 kHz 14K Φ F3E @ 20 kHz 16K Φ F3E @ 25 kHz		
4FSK Digital Modulation	12.5kHz Data Only: 7K6ФFXD 12.5kHz Data & Voice: 7K6ФFXW		
Conducted/Radiated Emission	–36dBm <1GHz –30dBm >1GHz		
Modulation Limiting	± 2.5kHz @ 12.5 kHz ± 4.0 kHz @ 20 kHz ± 5.0kHz @ 25 kHz		
FM Hum and 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 VocoderType	AMBE++/SELP		
Environmental Specifications			
Operating Temperature	-30°C ~ +60°C		
Storage Temperature	-40°C ~ +85°C		

All Specifications are tested accordingto applicable standards, and subjectto change without notice due tocontinuous development.



www.hytera.cn

Hytera Communications Corporation Limited

HYT is a registered trademark of Hytera

© 2010 Hytera, Co., Ltd. All Rights Reserved.

HYTERA retains right to change the product design and specification. Should any printing mistake occur, HYTERA doesn't bear relevant responsibility.Little difference between real product and product indicated by printing materials will occur by printing reason.