

Specifications

General	Frequencies	UHF1: 400-470MHz; UHF2: 450-520MHz UHF3: 350-400MHz; VHF: 136-174MHz	
	Channel Capacity	16	
	Channel Spacing	12.5kHz/20kHz/25kHz	
	Operating Voltage	13.6V ± 15%	
	Channel Capacity	Standby	<0.8A
		Transmit	<11A
	Frequency Stability	± 0.5ppm	
	Antenna Impedance	50 Ω	
	Duty Cycle	100%	
	Dimensions (H x W x D)	88 X 483 X 366 mm(3.4 X 19.0 X 14.4 inch)	
Weight	8.5 kg(18.7 lbs)		
LCD Display	220*176 pixels, 262000 colors; 2.0 inch, 4 rows		
Receiver	Sensitivity	Analog	0.3 μV (12dB SINAD); 0.22 μV (Typical) (12dB SINAD); 0.4 μV (20dB SINAD)
		Digital	0.3uV/BER5%
	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 @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz
	Spurious Response Rejection TIA-603 ETSI	80dB @ 12.5/20/25 kHz	80dB @ 12.5/20/25 kHz
		Blocking TIA-603 ETSI	90dB 90dB
	Hum and Noise	-40dB@12.5kHz -43dB@20kHz	-45dB@25kHz
	Rated Audio Power Output	0.5W	
	Rated Audio Distortion	≤ 3%	
	Audio Response	+1 ~ -3dB	
Conducted Spurious Emission	<-57dBm		

Transmitter	RF Power Output	5-50W
	FM Modulation	11K0F3E@12.5kHz; 14K0F3E@20kHz; 16K0F3E@25kHz
	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD; 12.5kHz Data & Voice: 7K60FXW
	Conducted/Radiated Emission	-36dBm <1GHz; -30dBm >1GHz
	Modulation Limiting	± 2.5 kHz @ 12.5 kHz; ± 4.0 kHz @ 20 kHz; ± 5.0 kHz @ 25 kHz
	FM Hum & Noise	-40dB @ 12.5 kHz; -43dB @ 20 kHz; -45dB @ 25 kHz
	Adjacent Channel Power	60dB@12.5kHz; 70dB@20 /25kHz
	Audio Response	+1 ~ -3dB
	Audio Distortion	≤ 3%
	Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1,-2,-3	

Environmental Specifications	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C

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

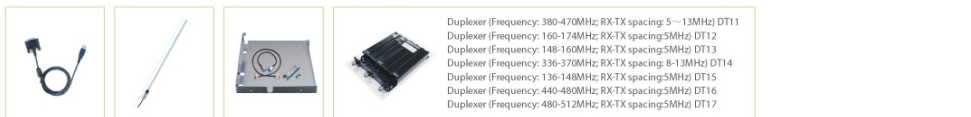
Standard Accessories

Power Cord

Optional Accessories



Palm Microphone SM16A1 Desktop Microphone SM10A1 Duplexer Bracket BRK09 (for DT11 and DT14 only) External Power Supply (300W, backup power applicable) PS22002 Bracket (2U)(black) BRK12 Bracket (2U)(grey) BRK14 Power Cord (10A 12AWG) PWC11 Fuse POA33 10pin programming cable (USB) PC37



DB26 data cable (USB) P40 Omni-directional Antenna Duplexer Bracket BRK16
Duplexer (Frequency: 380-470MHz; RX-TX spacing: 5 ~ 13MHz) DT11
Duplexer (Frequency: 160-174MHz; RX-TX spacing: 5MHz) DT12
Duplexer (Frequency: 148-160MHz; RX-TX spacing: 5MHz) DT13
Duplexer (Frequency: 336-370MHz; RX-TX spacing: 8-13MHz) DT14
Duplexer (Frequency: 136-148MHz; RX-TX spacing: 5MHz) DT15
Duplexer (Frequency: 440-480MHz; RX-TX spacing: 5MHz) DT16
Duplexer (Frequency: 480-512MHz; RX-TX spacing: 5MHz) DT17

Pictures above are for reference only and may vary from actual products.

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RD988

Powerful Digital Repeater

- Smart Digital-Analog Switch
- Outstanding Heat Dissipation





Product Features

- Smart Digital-Analog Switch**
 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 base station and frequency license, but also relieve the pressure of increasing shortage in spectrum resources.
- Outstanding Heat Dissipation**
 The unique cooling design combining a built-in 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.
- Accessory Expansion**
 RD988 supports third party to develop accessories expansion via front and rear port of the Repeater. This is achieved via the signal streaming and pin control through the repeater ports.

Main Functions

- Repeater Diagnostic And Control (RDAC)**
 RD988 supports Remote (via IP port to connect to internet) and Local diagnostic (via USB) PC applications to monitor, diagnose and control the repeater status, thus increasing the maintenance efficiency. "Hytera" s developed RDAC is able to support multiple master network connection to allow radio administrator to monitor multiple radio network upcoming!
- Dual Slot Digital Audio Streaming**
 RD988 supports streaming of both the voice slots via the rear port accessory pins, allowing third party for capability expansion.
- Analog Digital Autoswitch**
 RD988 supports Analog and Digital channel auto switching, allowing efficient frequency sharing between Analog and Digital users during the digital migration.
- IP Multi-site Connect**
 RD988 supports network interconnect via the IP port of repeater to form a private radio network, allowing wide area coverage to meet dispersed locations data and voice communications.
- 50W High Power**
 RD988 supports maximum repeating power of 50W, and thus increasing the system coverage with lesser setup equipments.
- 16 Channels**
 RD988 supports maximum of 16 channels, allowing efficient radio network control at different scenarios. The channel change can be performed either via RDAC PC tools, via the repeater's front panels channel knob and via the channel steering from the repeater's rear port.
- Analog/Digital Operating Mode**
 RD988 supports operating mode of Analog and Digital.
- Analog/Digital Back-to-Back Interconnect**
 RD988 supports different operating mode of Analog and Digital to interconnect for voice cross patch, allowing Analog users to communicate to the Digital users and vice versa. This has allowed the smooth migration for Analog users to the digital world!
- Analog Repeater Knockdown**
 RD988 supports repeater knockdown, that when activated via the repeater's rear accessory pin, will disabled the transmit path of the repeater.
- Multi CTCSS/CDCSS Decode**
 RD988 supports decoding up to maximum of 16 CDCSS/CTCSS in Analog channels, allowing repeating of different Analog voice users from various groups.
- Analog Scan**
 RD988 supports Analog voice and signaling scan, allowing repeating of different Analog voice users from various groups.
- Repeater Access Management**
 RD988 supports radio users access control to the repeater, allows better security to prevent un-authorized users from accessing the radio network.
- Analog/Digital Telephone Interconnect (via DTMF signaling)**
 RD988G supports simplex voice communications between radio and telephone users. It allows a radio user to make a telephone call; or a telephone user to make either a Group or Private call to radio users. This feature utilizes the Commercial Off The Shelf (COTS) Analog Phone Patch boxes and a Plain Old Telephone Service (POTS) line to connect the Repeater to the Corporate Office Phone System (PBX) or Public Switched Telephone Network (PSTN).
- Continuous Wave Identification (CWID)**
 RD988 supports Analog transmission of the repeater identification in Morse code format.

* indicates functions available in later version.

RD988

Higher Efficiency,
Richer Experience

As a professional repeater built to the DMR standard, RD988 integrates user concerns and actual requirements. Powerful digital feature, remarkable service quality and considerate ergonomic design - It will refresh your communication experience!

Applications

Public Safety
Energy and Forestry

Utility
Business

Transportation
Sports

