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
Current Drain — 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

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 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 Vocoder Type	AMBE++/SELP

Environmental Specifications

Operating Temperature	−30℃ ~ +60℃
Storage Temperature	−40℃ ~ +85℃

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

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RD988
Powerful Digital Repeater

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!

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

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Higher Efficiency
Richer Experience

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

Ergonomics handle design makes handling more comfortable

Programmable buttons for customized application

2.0" TFT LCD and menu navigation knob to facilitate service and maintenance

Internal installation for mobile duplexer

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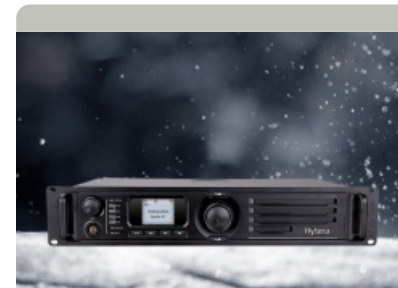
Advanced TDMA Technology
The application of Time Division Multiple Access (TDMA) technology greatly enhances spectrum efficiency, which allows twice the user compared with that of traditional FDMA. Obviously, this can not only save your cost in infrastructure and frequency license, but also relieve the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

Outstanding Reliability
· The repeater is capable of 100% duty cycle at full power (50W), meeting demanding requirements of any conventional or trunking system.
· As a modularized product built to military standard, the repeater can deliver solid reliability and remarkable performance for a long time.
· The unique heatsink 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.

Standard Accessories ››

DC Power Cable PWC11

Optional Accessories ››

| Programming Cable (USB Port) PC37 | Palm Microphone SM16A1 | Omnidirectional Antenna | Directional Antenna | Duplexer Installation Kit (Apply to Hytera-approved Model Only) | Desktop Power Supply (300W) PS22002 | Rack-mount Installation Kit(For Ps22002 only) BRK12 |