

# 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                         |
|                              | Transmit                        |
| Frequency Stability          | ± 1ppm                          |
| Antenna Impedance            | 50Ω                             |
| 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                            |
| Intermodulation              | TIA-603                         |
|                              | ETSI                            |
| Spurious Response Rejection  | TIA-603                         |
|                              | ETSI                            |
| 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               | 11K φ F3E @ 12.5 kHz  |
|                             | 14K φ F3E @ 20 kHz  |
|                             | 16K φ F3E @ 25 kHz  |
| 4FSK Digital Modulation     | 12.5kHz Data Only: 7K6 φ FXD<br>12.5kHz Data & Voice: 7K6 φ FXW |
| 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<br>70dB @ 20/25KHz                              |
| Audio Response              | +1 ~ -3dB   |
| Audio Distortion            | 3%  |
| Digital Vocoder Type        | AMBE++/SELP   |

| 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.



# RD982

## Powerful Digital Repeater

As a professional repeater built to the DMR standard, RD982 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



Higher Efficiency  
Richer Experience



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



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

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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 >>

