

DMR Repeater

Model: RPT-08N



DMR Repeater/ Analog and Digital

Main Features:

- ◆ 19 Inches, 1U Cabinet Size Design with Power Supply Inside
- ◆ 100% Continuous Duty Cycle with 50W High Power Output
- ◆ DMRA AIS Application Successful Solution
- ◆ Upgrade to DMR Trunking and Simulcast Basestation Transceiver

Specifications

| General | |
|-----------------------|--|
| Frequency | VHF1:136-174 MHz UHF1:400-470MHz UHF3:350-400MHz |
| Channel Capacity | 32 |
| Channel Space | 12.5KHz/25KHz |
| Dimensions(H*W*D) | 44*483*375*mm |
| Weight | 7.6Kg |
| LCD | 1.8" 128x160 pixels, TFT color LCD |
| Operating Voltage | DC13.6V±15% / AC100-240VA |
| Current Drain | <1A (Standby) <11A (Transmit) |
| Frequency Stability | 0.5ppm |
| Continuous duty Cycle | 100% |

| Receiver | |
|--|--|
| Digital Sensitivity | -120dBm/BER 5% / -116dBm/BER 1% |
| Digital Dynamic Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading) | -104dBm |
| Analog Sensitivity | -120dBm/12dB SINAD |
| Intermodulation | 75dB (TIA603) /70dB(ETSI) |
| Blocking | 95dB (TIA603 & ETSI) |
| Spurious Response Rejection | 75dB (TIA603 & ETSI) |
| Selectivity | 75dB@25 KHz(TIA603&ETSI) /65dB@12.5KHz(TIA603&ETSI) |
| Conducted Spurious Emission | -57dBm |
| Rated Audio Power Output | 1W |
| Rated Audio Distortion | 3% |
| Hum and Noise | 45dB @25KHz /40dB@12.5KHz |
| Audio Response | +1dB ~-3dB |
| Digital Vocoder Type | AMBE++/NVOC |
| Digital Protocol | ETSI-TS102 361-1, -2,-3,-4 |

| Transmitter | |
|---------------------------------|--|
| Frequency Stability | 0.5ppm |
| RF Power Output | High Power Model:45~50W Low Power Model:25W |
| Digital Modulation | 7K60FXD(Data Only) / 7K60FXW (Data and Voice) |
| FM Modulation | 16Kϕ F3E@25KHz / 11Kϕ F3E@12.5KHz |
| 4FSK Modulation Accuracy | 5% |
| 4FSK BER | 0% |
| 4FSK and Magnitude Error | 5% /1% |
| Adjacent Channel Power | 70dB@25KHz /60dB@12.5KHz |
| Conducted and Radiated Emission | -36dBm <1GHz /-30dBm >1GHz |
| Transmission Deviation limits | 5KHz@25KHz /2.5KHz@12.5KHz |
| Audio Distortion | 3% |
| Hum & Noise | 45dB@25KHz /40dB@12.5KHz |
| Audio Response | +1dB~-3dB |

| Reliability | |
|-----------------------------------|--|
| Operating Temperature | -30 ~ +60°C |
| Storage Temperature | -40 ~+85°C |
| Shock & Vibration | MIL-STD-810 C/D/E/F/G standard |
| ESD | IEC 61000-4-2(level 4) ±8KV (Contact) ,±15KV (Air) |
| Surge Immunity Test (EN 6100-4-5) | Differential Mode:6KV Common Mode:6KV |

Accessories

| | | | | |
|---|---|---|--|---|
|  |  |  |  |  |
| Duplexer | AC Power Cable | Power Cord | Programming Cable | Fuse |