

MODEL 200V DMR

Handheld Two-Way VHF Digital Portable Radio

Product Description

The Model 200U DMR is a highly capable, reliable, modern, digital portable radio solution that is designed for mission critical environments. It offers a digital communications solution based on the DMR standard.

System Features

General

- | | |
|--------------------------|----------------|
| • Frequency Range: | VHF:136-174MHz |
| • Number of Channels: | 1000 Channels |
| • Channel Spacing: | 12.5kHz |
| • Operating Voltage: | 7.4v |
| • Battery Type: | Li-ion |
| • Operating Temperature: | -30°C+60°C |
| • Store Temperature: | -40°C+85°C |
| • Antenna Impedance: | > 50Ω |
| • Audio Output Power: | ≤ 1000mW @16Ω |
| • Battery Capacity: | 2000mAh |
| • Dimensions (H*W*D): | 131*61*36mm |
| • Weight: | 258g |

Transmitter

- | | |
|-------------------------|---|
| • Output Power: | High: ≤ 5W
Low: ≤ 1W |
| • Frequency Stability: | +/- 1.0ppm |
| • Adjacent Channel: | ≤ -60dB |
| • Free Time Slot Power: | TDMA: ≤ 57dBm |
| • SNR: | -40dB @ 12.5kHz |
| • Spurious Radiation: | 9kHz-1GHz ≤ -36dBm
1GHz-12.75GHz ≤ -30dBm |
| • FM Modulation Mode: | 12.5kHz: 11K0F3E |
| • 4FSK Digital Mode: | 12.5kHz (data only): 7K60FXD
12.5kHz (data+voice): 7K60FXE |



Transmitter cont.

- Modulation Maximum Deviation: 2.5kHz @ 12.5kHz
- Non-Active Slot Power: -57dBm
- Digital Protocol: ETSITS102 361-1-2-3
- Vocoder Type: AMBE+2TM
- Audio Response: +1dB ~ -3dB
- Modulation BER(Bit Error Rate): $\leq 5\%$

Receiver

- Analog Sensibility: 0.35uV/-116dBm (20dB SINAD)
0.22 uV/-120dBm (Type)
- Digital Sensibility: 0.3 uV/-117.4dBm (BER 5%)
0.22 uV/-110dBm (BER 1%)
- Co-Channel Rejection: ≥ -12 dB
- Spurious Response: TIA603C: 75dB ETSI: 70dB
- Adjacent Channel Selectivity: TIA603C: 65dB ETSI: 60dB
- Rated Audio Power: 1W
- Audio Response: =1dB ~ -3dB
- Rated Audio Distortion: 3% (Typical)
- Spurious Radiation: 9kHz-1GHz ≤ -57 dBm
1GHz-12.75GHz ≤ -47 dBm

