



DMR
DIGITAL
RADIO

DM-1801

DMR DIGITAL RADIO

Broadband radios

Support UV double segment, frequency range
UHF400.000-480.000MHz / VHF136.000-174.000MHz

DMO True2-Slot dual time slot

Direct mode dual-slot communication achieves two groups of calls at a frequency point at the same time, so that the communication efficiency is doubled and frequency resources are saved

Digital and analog compatible, smooth over

Support DMR digital and analog two communication modes to ensure that the original analog products smooth transition to digital products to meet different communication needs

Digital signaling function

Rich calling modes that support DMR protocol, including Private call, Group call and All call; supports remote inhibit function and other applications

Messages function

Supports SMS, text editing and draft in 250 characters in Chinese and English, so that text messages calls can be sent when voice call is inconvenient

High sound quality

This digital two-way radio uses advanced AMBE +2TM voice processing technology to achieve high quality

Manual writing-frequency

Supports channel / frequency mode, allows manual writing-frequency in frequency mode, and programming software can be used to set the required frequency without connecting the computer

High/low power switch

Meets the power requirements of different call distances to save more energy

Alarm function

Supports general alarm and silent alarm in emergency situations

Digital mode supports the use of relays

Side keys can be customized without changing the user's operating habits

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General

| | | | |
|-----------------------|--|-------------------|-----------------------------------|
| Frequency range | 136-174MHz (V) , 400-480MHz (U) | | |
| Channel Capacity | 1024 channels | Operating Voltage | 7.4V DC±20%/(2200mAh) |
| Frequency Stability | ±2.5ppm | Demission (H×W×D) | 133×62×36mm (with battery pack) |
| Operating Temperature | +10℃~+50℃ | Weight | 260g (with battery pack, antenna) |
| Channel Spacing | 25KHz(Wide Band), 12.5KHz(Narrow Band) | Phase-locked Step | 5KHz, 6.25KHz |

Transmitter

| | | | |
|------------------------------|--|------------------------|------------------------|
| Output power | High:5W Low:1W | Adjacent Channel power | ≤-65dB ≤-60dB |
| Output Consumption | Analog≤1.6A Digital≤0.9A | Audio Response | +1~-3dB |
| Consumption | ≤0.18A | Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| Modulation Distortion | <5% | Vocoder type | AMBE+2 TM |
| FM modulation (wide/narrow) | 16KϕF3E@25KHz 141KϕF3E@20KHz 11KϕF3E@12.5KHz | | |
| 4FSK digital modulation | 12.5KHz for data:7K60FXD 12.5KHz for data and voice :7K60FXE | | |
| Signal-to-noise(wide/narrow) | ≥45dB@25KHz ≥40dB@12.5KHz | | |
| Antenna Port Spurious | 9KHz-1GHz: ≤-36dBm 1GHz-12.75GHz: ≤-30dBm | | |

Receiver

| | | | |
|-------------------------------|----------------------|------------------|-----------------------------|
| Analog receive sensitivity | -122dBm (12dB SINAD) | Audio power | 1W |
| Digital receive sensitivity | -120dBm(BER≤5%) | Audio distortion | <10% |
| Signal imitation | ≥70dB | Audio response | +1~-3dB |
| Intermediation (Wide/ narrow) | ≥62dB/≥58dB | Receive Current | ≤380mA |
| Adjacent channel selectivity | ≥65dB/≥60dB | PM noise | ≥45dB@25KHz /≥40dB @12.5KHz |



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