



DR600

DMR Repeater

As a DMR repeater product with ergonomic design, totally digital functionality, the DR600 helps to improve management efficiency and a faster response in emergency situations.



**Kirisun DMR Solution
Delivers Significant Benefits**

DR600 DMR Repeater

KEY FEATURES AND BENEFITS

• Professional 1U Design

Professional 1U design saves installation space.

• Outstanding Heat Dissipation

The unique cooling design combines a built-in heat pipe and four fans to ensure efficient heat dissipation, preventing the repeater from over-heating in high output power mode.

• Smart Digital-Analog auto detection

DR600 can be configured to analogue, digital or mixed mode. When configured to mixed mode, the repeater can dynamically switch between analogue and digital depending on the type of received calls.

• Accessory Expansion

DR600 supports third party development via a rear port of the repeater. This is achieved via the pin control through the repeater rear port.

• IP Site Link Connection (Optional)

DR600 repeaters can be connected based on TCP/IP network (LAN or VPN in WAN) to form a IP connection network, which can expand the repeaters' coverage area.

• LED Indicator

DR600 has 9 LEDs to indicate repeater's different status clearly, such as power-on, analogue repeating, digital repeating, transmitting, receiving, alarm, etc.

• AIS/SIP Interface

It provides AIS/SIP second development interface, allowing dispatch, telephone system and other facilities to be developed by the third party.

• Remote Monitor and Diagnosis

It supports remote monitor/diagnosis and controlling repeater status.



SPECIFICATIONS

General

| | |
|----------------------------|---|
| Channel Capacity | 64 |
| RF Output | 45W(VHF) / 40W(UHF) |
| Transmitting Current Drain | < 15A(45W) |
| Frequency Range | 136-174MHz / 400-470MHz/350-400MHz/450-520MHz |
| Channel Spacing | 12.5kHz / 20kHz / 25kHz |
| Dimensions(HWD) | 44x482.6x450mm (1.73x19x17.72in) |
| Weight | 11.2kg(24.7lb) |
| Operating Temperature | -30°C ~ +60°C |
| Operating Voltage | DC13.8V±20% Option: AC 100—250V 50/60Hz |
| Storage Temperature | -40°C ~ +85°C |
| ESD | IEC 61000-4-2(level 4) |
| Max Duty Cycle | 100% |

Transmitter

| | |
|------------------------------|--|
| Frequency Stability | ±0.5 ppm |
| RF Output | 45W(VHF) / 40W(UHF) |
| FM Hum and Noise | -40dB@12.5kHz -45dB@20kHz/25kHz |
| Conducted/Radiated Emission | -36dBm@<1GHz, -30dBm@>1GHz |
| Adjacent Channel Power | -60dB@12.5kHz, -70dB@20kHz/25kHz |
| FM Modulation Mode | 12.5kHz: 11KΦF3E 25kHz: 16KΦF3E |
| Modulation Maximum Deviation | 2.5kHz@12.5kHz, 4kHz@20kHz/5kHz@25kHz |
| Audio Response | +1dB, -3dB |
| Audio Distortion | < 3% |
| Vocoder | AMBE+ / + / NVOC |
| 4FSK Digital Modulation | 12.5kHz(data only):7K60FXD, 12.5kHz(data+voice):7K60FXE |

Receiver

| | |
|------------------------------|--|
| Frequency Stability | ±0.5 ppm |
| Analog Sensitivity | <0.30μV (12dB SINAD) |
| Digital Sensitivity | <0.30μV (5%BER) |
| Intermodulation | TIA603: 75dB ETSI: 75dB |
| Adjacent Channel Selectivity | TIA603: 70dB @ 12.5 kHz / 75dB @ 20/25 kHz ETSI: 70dB @ 12.5 kHz / 75dB @ 20/25 kHz |
| Spurious Response Rejection | TIA603: 75dB ETSI: 70dB |
| Conducted Spurious Emission | - 57dBm@ < 1GHz, -47dBm @ > 1GHz |
| Blocking | 90dB |
| Rated Audio Distortion | < 3% |
| Hum and Noise | - 40dB@12.5kHz, -45dB@20kHz/25kHz |
| Audio Response | +1dB, -3dB |



Shenzhen Kirisun Communications Co.,Ltd.

FCCID UHF:Q5EDR600/VHF:Q5EDR60001 ISO9001: 2015 Accredited Designer & Manufacturer

ADD: 3rd Floor, Building A, Tongfang Information Harbour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China Science & Industry Park, Nanshan District
Pc: 518057
Tel: +86-755-86096076
Email: marketing.os@szkirisun.com
Http: //www.kirisun.com

For more information, please contact:



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