



# DR600

## DMR REPEATER

As a DMR repeater product with ergonomic design, all-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 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 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
Channel Spacing	12.5kHz / 20kHz / 25kHz
Dimensions(HWD)	482.6mmx450mmx44mm
Weight	10.8kg
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



**Kirisun Communications Co.,Ltd.**

FC CE ISO9001: 2015 Accredited Designer & Manufacturer

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