



# 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 three 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 analog, digital or mixed mode. In mixed mode, the repeater can dynamically switch between modes regarding on received signal type.

### • 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 via TCP/IP network to expand coverage area, and can be easily upgrade to Tier III Trunking station by software.

### • LED Indicator

DR600 has 9 LEDs to indicate different status 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 status control.



## SPECIFICATIONS

### General

Frequency Range	136-174MHz, 350-400MHz, 400-470MHz
Channel Capacity	64
Channel Spacing	25kHz/20kHz/12.5kHz
Operating Voltage	DC: 13.6V±15%, AC: 100~250V 50/60Hz
Current Drain	Standby <1.0A
	Transmit <12A
Frequency Stability	0.5 ppm
Antenna Impedance	50Ω
Duty Cycle	100%
Dimensions(H-W-D)	482.6mm×450mm×44mm
Weight	10.8Kg
LCD Display	NO

### Transmitter

RF Power Output	High Power: 40W(UHF)/45W(VHF)
FM Modulation	11K0F3E@12.5kHz, 14K0F3E@20kHz; 16K0F3E@25kHz
4FSK	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz
Digital Modulation	Voice: 7K60F1E&7K60FXE
	Combination of 12.5kHz Voice and Data: 7K60F1W
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum & Noise	40dB@12.5kHz, 45dB@20kHz/25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@20kHz/25kHz
Audio Response	+1~-3dB
Audio Distortion	3%
Digital Vocoder Type	ABME
Advanced Encryption	ARC4 (40bits), DES (64bits) and AES (128bits, 192bits and 256bits)
Digital Protocol	ETSI-TS102 361-1,-2,-3,-4 ; ETSI TR 102 398 V1.3.1

### Receiver

Sensitivity Analog	0.3 μV(12dB SINAD)
Sensitivity Digital	0.3 μV/BER5%
Selectivity	70dB@12.5kHz, 75dB@20/25kHz(TIA-603)
	70dB@12.5kHz, 75dB@20/25kHz(ETSI)
Spurious Response Rejection	75dB@12.5/20/25kHz(TIA-603)
	70dB@12.5/20/25kHz(ETSI)
Hum and Noise	40dB@12.5KHz, 45dB@20/25KHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	3% (Typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@ < 1GHz, -47dBm @ > 1GHz
Intermodulation (TIA603D)	70dB

### Environment Specifications

Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC61000-4-2(Level4)
	±4kV(Contact) ±8kV(air)

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.



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