

DR600 DMR Repeater

As a DMR Tier2 and Tier3 product with ergonomic design, totally digital functionality, the DR600 helps to improve management efficiency and a faster response in emergency situations. Features



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 design ensuring very 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. When configured to mixed mode, the repeater can dynamically switch between analog and digital depending on the type of call it receives.

Accessory Expansion

DR600 supports third party development via a rear port of the repeater. This is achieved via the pin control through the repeater ports. SIP and AIS protocol supported for easy expansion.

IP Connecting

IP connection is a function which enables repeaters in different areas to switch data, voice and packets over a TCP/IP based network.

I FD Indicator

9 LED indicators on the front of panel enables you to identify the repeater status clearly.

· Software Upgradable to DMR Tier2 or Tier3

The advanced features can be upgraded to your existing DR600 repeaters by software without purchasing a new one. By software upgrade, the repeater can be used as a DMR Tier2 repeater or DMR Tier3 transceiver.



SPECIFICATIONS

General

64 Channel Capacity 45W(VHF) / 40W(UHF) **RF** Output <15A(45W) Transmitting Current Drain Frequency Range 136-174MHz / 400-470MHz/350-400MHz/450-520MHz Channel Spacing 12.5kHz / 20kHz / 25kHz Dimensions 482.6*450*44mm Weight 11.2ka **Operating Temperature** -30°C~+60°C Operating Voltage DC13.8±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 **RF** Output FM Hum and Noise Conducted/Radiated Emission Adjacent Channel Power FM Modulation Mode Audio Response Audio Distortion Vocoder 4FSK Digital Modulation

±0.5 ppm 45W(VHF) / 40W(UHF) -40dB@12.5kHz -45dB@20kHz/25kHz -36dBm@<1GHz, -30dBm@>1GHz -60dB@12.5kHz. -70dB@20kHz/25kHz 12.5KHz: 11K**Φ**F3E 25KHz: 16K**Φ**F3E Modulation Maximum Deviation 2.5kHz@12.5kHz, 4kHz@20kHz/5kHz@25kHz +1dB, -3dB < 3% AMBE+2 12.5KHz(data only):7K60FXD, 12.5KHz(data+voice):7K60FXE

Receiver

Frequency Stability Analog Sensitivity **Digital Sensitivity** Intermodulation Adjacent Channel Selectivity

Spurious Response Rejection **Conducted Spurious Emission Rated Audio Distortion** Hum and Noise Audio Response

±0.5 ppm < 0.30 µV (12dB SINAD) <0.30 µV (5%BER) TIA603: 75dB ETSI: 75dB TIA603: 70dB @ 12.5 kHz / 75dB @ 20/25 kHz ETSI: 70dB @ 12.5 kHz / 75dB @ 20/25 kHz TIA603: 75dB ETSI: 70dB - 57dBm@ < 1GHz, -47dBm@ > 1GHz < 3% - 40dB@12.5kHz, -45dB@20kHz/25kHz +1dB, -3dB



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