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.

• LED 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	
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	482.6*450*44mm
Weight	11.2kg
Operating Temperature	-30℃～+60℃
Operating Voltage	DC13.8±20% Option：AC 100—250V 50/60Hz
Storage Temperature	-40℃～+85℃
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+2
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
Rated Audio Distortion	＜ 3%
Hum and Noise	- 40dB@12.5kHz, -45dB@20kHz/25kHz
Audio Response	+1dB，-3dB

Kirisun Communications Co.,Ltd.

FC CE ① ISO9001: 2008 Accredited Designer & Manufacturer

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