

# 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.





# **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

#### · 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 RF Output Transmitting Current Drain Frequency Range Channel Spacing Dimensions(HWD) Weight

Operating Temperature Operating Voltage

Storage Temperature **ESD** 

Max Duty Cycle

64

45W(VHF) / 40W(UHF) < 15A(45W)

136-174MHz / 400-470MHz/350-400MHz 12.5kHz / 20kHz / 25kHz 482.6mmx450mmx44mm 10.8ka

-30°C~+60°C

Option: AC 100-250V 50/60Hz  $DC13.8V \pm 20\%$ 

-40°C~+85°C IEC 61000-4-2(level 4) 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

 $\pm 0.5 ppm$ 45W(VHF) / 40W(UHF) -40dB@12.5kHz -45dB@20kHz/25kHz -36dBm@<1GHz, -30dBm@>1GHz -60dB@12.5kHz. -70dB@20kHz/25kHz 12.5kHz: 11КФF3E 25kHz: 16КФF3E Modulation Maximum Deviation 2.5kHz@12.5kHz, 4kHz@20kHz/5kHz@25kHz +1dB, -3dB

> < 3% AMBE + + /NVOC12.5kHz(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 Blocking **Rated Audio Distortion** Hum and Noise Audio Response

 $\pm 0.5 ppm$ <0.30 \(\mu\) (12dB SINAD) <0.30 \(\mu\) (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 90dB < 3% - 40dB@12.5kHz, -45dB@20kHz/25kHz

+1dB, -3dB



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F€ (€ ISO9001: 2015 Accredited Designer & Manufacturer

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