

TR850

DMR REPEATER

A DMR product with ergonomic design and all round digital functions, TR850 helps to improve management efficiency and responsiveness in emergency situations.

The Kirisun DMR series is the cost effective migration solution from analog to digital which you can do at your own pace.





TR850 DMR REPEATER

KEY FEATURES AND BENEFITS

Professional 3U Design

Professional 3U design leaves enough space for an added duplexer and is suitable for desk-top, cabinet and rack installations.

Outstanding Heat Dissipation

The unique cooling design combines a built-in heat pipe and an intelligent control fan, ensuring very efficient heat dissipation, preventing the repeater from over-heating in high output power mode.

Smart Digital-Analog Auto Detection

TR850 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

TR850 supports third party development via a rear port on the repeater. This is achieved via the signal streaming and pin control through the repeater ports.

IP Connecting

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

LED Indicator

There are 9 LED indicators on the front of panel to enable you to identify the repeater status clearly.



1 LED Indicator

TR850 SPECIFICATIONS

General

Frequency Range
Channel Capacity
Transmitting Current Drain
Channel Spacing
Operating Temperature
Operating Voltage
Storage Temperature

ESD Max Duty Cycle

Dimensions Weight 136~174MHz, 400~470MHz

16

<10A(25W)/15A(45W) 12.5kHz/20kHz/25kHz -30°C~+60°C

DC13.8 ± 20% Option: AC 100—250V 50/60Hz

-40 °C ~ +85 °C IEC 61000-4-2 100%

482.5mmx338.5mmx132.5mm

11.5Ka

Transmitter

Frequency Stability

Power Output
FM Hum and Noise
Conducted/Radiated Emission
Adjacent Channel Power
FM Modulation Mode
Modulation Limiting
Audio Response

1.5ppm
25/40W(UHF) 25/45W(VHF)
-40dB@12.5kHz, -45dB@20kHz/25kHz
-36dBm@<1GHz, -30dBm@>1GHz
-60dB@12.5KHz, -70dB@20KHz/25kHz
12.5KHz:11KΦF3E, 20kHz: 14ΦFK3E, 25KHz:16KΦF3E
2.5kHz@12.5kHz, 4kHz@20kHz, 5kHz@25kHz

+1dB~-3dB ≤3%

Receiver

Audio Distortion

Frequency Stability
Analog Sensitivity
Digital Sensitivity
Intermodulation
Adjacent Channel Selectivity

Spurious Response Rejection Conducted Spurious Emission Rated Audio Distortion Hum and Noise 1.5ppm 0.30µV (12dB SINAD) 5%BER:0.3µV TIA603C:75dB ETSI:70dB TIA-603:65dB@12.5 kHz/75dB@20/25 kHz ETSI: 65dB@12.5 kHz/75dB@20/25 kHz TIA603C:75dB ETSI:70dB -57dBm@<1GHz, -47dBm@>1GHz ≤3% (Typical) -40dB@12.5kHz, -45dB@20kHz/25kHz



- 1 AC Power
- 2 TX Connector
- 3 GPS
- 4 Fan
- RX Connector
- 6 IP In-put
- 7 26 Pin the 2nd Development Connector
- B DC Power Connector



Kirisun Communications Co., Ltd.

FC (€ ① ISO9001: 2008 Accredited Designer & Manufacturer

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