



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 a 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 pin control through the repeater rear ports.

IP Site Link Connection

TR850 repeater can be connected via TCP/IP network to expand the coverage area, working in digital or analog mode.

Contiguous Wave Identification(CWID)

TR850 supports analog transmission of the repeater identification in Morse code format.

AIS/SIP Interface

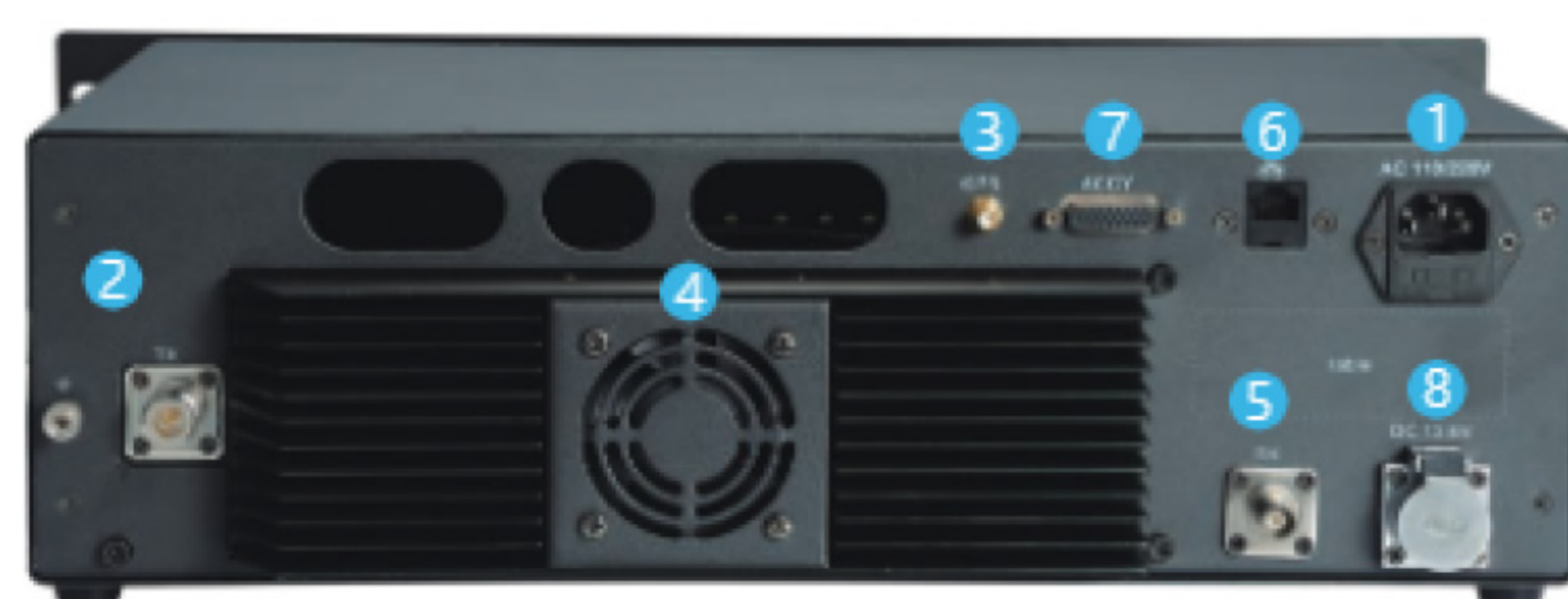
It provides AIS/SIP second development interface, allowing dispatch, telephone system and other facilities to be developed by the third party.

LED Indicator

TR850 has 9 LEDs to indicate different status such as power-on, analogue repeating, digital repeating, transmitting, receiving, alarm, etc.



1 LED Indicator



- 1 AC Power
- 2 TX Connector
- 3 GPS
- 4 Fan
- 5 RX Connector
- 6 IP In-put
- 7 726 Pin the 2nd Development Connector
- 8 DC Power Connector



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TR850 SPECIFICATIONS

General

Frequency Range	136-174MHz, 350-400MHz, 400-470MHz, 450-520MHz
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
Current Drain Transmit	<12A
Frequency Stability	0.5 ppm
Antenna Impedance	50Ω
Duty Cycle	100%
Dimensions(H·W·D)	482.6mm×338.5mm×132.5mm
Weight	11.5Kg

Transmitter

RF Power Output	High Power: 40W(UHF)/45W(VHF)
FM Modulation	11K0F3E@12.5kHz, 14K0F3E@20kHz, 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz 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+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3,-4

Receiver

Sensitivity Analog	0.3μV(12dB SINAD)
Sensitivity Digital	0.3μV/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)
Inter-modulation	70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/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

Environment Specifications

Operating Temperature	-30~ +60
Storage Temperature	-40~+85
ESD	IEC61000-4-2(Level4) ±4kV(Contact) ±8kV(air)
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

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



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