KTeck

KR600

DMR REPEATER

As a DMR repeater product with standard extensible design, all-digital functionality, the KR600 helps to improve management efficiency and a faster response in emergency situations.

KR600 DMR Repeater

KEY FEATURES AND BENEFITS

Professional 1U Design
Standard & Extensible 1U Design saves installation space, and easy to expand working as transceiver of trunking base station.

Outstanding Heat Dissipation
The unique cooling design combines a built-in heat pipe and three fans to ensure efficient heat dissipation, preventing the repeater from over-heating in high output power mode.

Smart Digital-Analog Auto Detection
KR600 can be configured to analog, digital or mixed mode. In mixed mode, the repeater can dynamically switch between modes regarding on received signal type.

Accessory Expansion
KR600 supports third party development via a rear port of the repeater. This is achieved via the pin control through the repeater rear port.

IP Multi-site Connect
KR600 repeaters can be connected via TCP/IP network to expand the coverage area, working in digital or analog mode.

LED Indicator
KR600 has 9 LEDs to indicate different status such as power-on, analogue repeating, digital repeating, transmitting, receiving, alarm, etc.

AIS/SIP Interface
KR600 provides AIS/SIP second development interface, allowing dispatch, telephone system and other facilities to be developed by the third party.

Remote Monitor and Diagnosis
KR600 supports remote monitor/diagnosis and status control.

Contiguous Wave Identification(CWID)
KR600 supports analog transmission of the repeater identification in Morse code format.

DMR Tier3 Upgradable
KR600 repeater can support DMR Tier3 mode with software upgrading.

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

SPECIFICATIONS

General	
Frequency Range	136-174MHz, 350-400Mhz, 400-470MHz
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
Transmit	<12A
Frequency Stability	0.5 ppm
Antenna Impedance	50Ω
Duty Cycle	100%
Dimensions(H·W·D)	482.6mm×450mm×44mm
Weight	11.2Kg

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	0.22μV(12dB SINAD)
Sensitivity Digital	0.22μV/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	IEC610000-4-2(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

KTeck

K-System Technologies Limited
Address: ROOM13,27/F, HO KING COMMERCIAL CENTRE, 2-16 FA YUEN STREET, MONGKOK, KOWLOON, HONG KONG | Emial: info@ksystem.hk