





DR600 DMR REPEATER



repeater product with standard extensible design, unctionality, the DR600 helps to improve management and a faster response in emergency situations.





As a DMR all-digital fu efficiency a

DR600 DMR Repeater

KEY FEATURES AND BENEFITS

Professional IU Design

Standard & Extensible IU 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

DR600 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

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 Multi-site Connect

DR600 repeaters can be connected via TCP/IP network to expand the coverage area, working in digital or analog mode.

LED Indicator

DR600 has 9 LEDs to indicate different status such as power-on, analogue repeating, digital repeating, transmitting, receiving, alarm, etc.

AIS/SIP Interface

DR600 provides AIS/SIP second development interface, allowing dispatch, telephone system and other facilities to be developed by the third party.

Remote Monitor and Diagnosis

DR600 supports remote monitor/diagnosis and status control.

Contiguous Wave Identification(CWID)

DR600 supports analog transmission of the repeater identification in Morse code format.

DMR Tier3 Upgradable

DR600 repeater can support DMRTier3 mode with software upgrading.

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

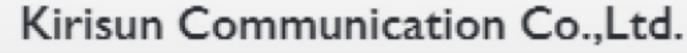
SPECIFICATIONS		
General		
Frequency Range	136-174MHz, 350-400Mhz,	
	400-470MHz, 450-520MHz	
Channel Capacity	64	
Channel Spacing	25kHz/20kHz/12.5kHz	
Operating Voltage	DC: 13.6V±15%,AC:100~250V 50/60Hz	
Current Drain Standby	<1.0A	
Transmit	<12A	
Frequency Stability	0.5 ppm	
Antenna Impedance	50Ω	
Duty Cycle	100%	
Dimensions(H·W·D)	482.6mm×450mm×44mm	
Weight	10.8Kg	

Transmitter	
RF Power Output	High Power: 40W(UHF)/45W(VHF)
FM Modulation	K0F3E@ 2.5kHz, 4K0F3E@20kHz;
	16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD,12.5kHz
	Voice: 7K60F1E&7K60FXE
	Combination of I2.5kHzVoice and Data: 7K60FIW
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@ < IGHz, -47dBm @> IGHz

Environment Specifications	
-30~ +60	
-40~+85	
IEC610000-4-2(Level4)	
±4kV(Contact) ±8kV(air)	
Per MIL-STD-810 C/D/E/F/G Standard	
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