



AXR7000

DMR REPEATER

As a DMR repeater product with ergonomic design, all-digital functionality, the AXR7000 helps to improve management efficiency and a faster response in emergency situations.

DMR



**Axiom DMR Solution
Delivers Significant Benefits**

AXR7000 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 three fans to ensure efficient heat dissipation, preventing the repeater from over-heating in high output power mode.

• **Smart Digital-Analog Auto Detection**

AXR7000 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**

AXR7000 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)**

AXR7000 repeaters can be connected based via TCP/IP network to expand coverage area.

• **LED Indicator**

AXR7000 has 9 LEDs to indicate different status 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 status control.



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	10.8Kg
LCD Display	NO

Transmitter

RF Power Output	High Power: 40W(UHF)/45W(VHF)
FM Modulation	11K0F3E@12.5kHz, 14K0F3E@20kHz; 16K0F3E@25kHz
4FSK	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz
Digital Modulation	Voice: 7K60F1E&7K60FXE
	Combination of 12.5kHz Voice and Data: 7K60F1W
	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
Modulation Limiting	40dB@12.5kHz, 45dB@20kHz/25kHz
FM Hum & Noise	60dB@12.5kHz, 70dB@20kHz/25kHz
Adjacent Channel Power	+1~-3dB
Audio Response	3%
Audio Distortion	ABME+2™
Digital Vocoder Type	ETSI-TS102 361-1,-2,-3,-4
Digital Protocol	

Receiver

Sensitivity Analog	0.3 μV(12dB SINAD)
Sensitivity Digital	0.3 μV/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)
	40dB@12.5kHz, 45dB@20/25kHz
Hum and Noise	0.5W
Rated Audio Power Output	3%(Typical)
Rated Audio Distortion	+1~-3dB
Audio Response	-57dBm@ < 1GHz, -47dBm @ > 1GHz
Conducted Spurious Emission	

Environment Specifications

Operating Temperature	-30℃~ +60℃
Storage Temperature	-40℃~ +85℃
ESD	IEC610000-4-2(Level4)
	±4kV(Contact) ±8kV(air)

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



Axiom Authorize Dealer



ISO 9001:14001



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