DMR MOBILE RADIO

Rx-RM750

Rx RM750 is a base & Mobile station and also function as single frequency repeater function (Optional) solution.



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KEY FEATURES

Base Station/Repeater Dual Modes

Extend DMO (Direct-Mode-Operation) Communication Distance

Power-on Password

Cost-effective DMR Repeater Solution

Good heat dispersion

The high-quality built-in fan provides sufficient airflow for operation within the specified temperature without derating, and thus enables Rx-RM750 to operate stably for long hours.

Multiple sites via IP (Factory Options)

RX-RM750 supports network connection via the IP port to form a private radio network, thus meeting data and voice communication needs for wide coverage and dispersed locations.

Repeater Power Backup (Optional)

With DC/AC dual power sources, when DC power supply is unplugged, the device automatically turns on to an AC power source. The two auto-switchable power sources serve as each other's backup, thus delivering more flexibility and stability.

Analog/Digital Back-to-Back Interconnect (Optional)

Rx-RM750 supports different operation modes of analog and digital to interconnect for voice crosspatch, allowing analog users to communicate with digital users and vice versa. This delivers a smooth transition from analog to digital.

2/5 Tones

Colour Code

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TECHNICAL DATA

General	
Frequency Range	VHF: 136-174 MHz UHF: 400-480/450-520 MHz
Channel Capacity	160
Channel Spacing	12.5 KHz
Antenna Impedance	50Ω
Operating Voltage	DC 12V AC 110V (±15%) or 220 V (±15%) Optional
Frequency Stability	±1.5 ppm
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 80°C
Dimensions	175x175x63 mm (LxBxH)
Weight	1.51 Kgs

Transmitter	
FM Modulation	12.5 KHz:8K50F3E
Modulation Limitation	+/-2,5KHz @ 12.5KHz
4FSK Modulation	12.5 KHz (data only): 7K60FXD 12.5 KHz (data and voice): 7K60FXE
Adjacent Channel Power	≤-60 dB
Spurious Radiation	-36 0dBm≤1GHz -30 0dBm≥1GHz
Vocoder	AMBE +2™
Audio Distortion	≤3%
FM Noise	-40dB
Frequency Response	+1/-3 dB

Receiver	
Digital Sensitivity	5% BER: 0.25µV
Analog Sensitivity	0.25µV (12dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	70dB
Spurious Suppression	70dB
Blocking	≥ 95dB
FM Noise	-40dB
Frequency Response	+1/-3dB
Audio Power	3W
Audio Distortion	3% (typical)
Conduction Radiation	-57dBm
GPS Precision	Horizontal Accuracy ≤-10m (when signal is good)
TTFF (first location) Cold Boot	< 1 minute (good signal)
TTFF (first location) Hot Boot	<10 second (good signal)

ACCESSORIES

- Remote Speaker
- DC Power Supply Cord
- Fuse
- Hang Buckle
- Platform Support

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