

VXR-1000 Series

VHF/UHF Cross-band Mobile Repeater

SPECIFICATION SHEET – NORTH AMERICA

Expand Portable Analog Coverage

The VXR-1000 provides portable radios extended range in low-coverage areas using the high output power of mobile radios. Get dependable coverage throughout your system without the costly addition of bulky site equipment.

Compact Size for Easy Installation

Fits easily on top of a mobile radio or anywhere in the vehicle (trunk, sidewall, etc.) without taking up space.

Easily Integrate with Existing Systems

The VXR-1000 will interface with most brands of mobile radios and works with most Low Band, VHF and UHF systems. It can also be programmed to work with most trunking protocols.

First-On-Scene Logic for Reliability

If multiple vehicles are at one location, the VXR-1000 will adjust to recognize one master repeater in operation at a time to ensure communications is never disrupted.

Command Control: Bypass The Main System

When direct, secure communications is needed to a portable radio user, the VXR-1000 can talk directly to the portable radio and avoid transmission through the repeater system.

Secure Mobile Communications

The VXR-1000 includes Voice Inversion Encryption that provides the connected mobile radio device with secure communications capability.

Exclusive Auto-Range Transpond System – ARTS™

Always know your connection status. Only Vertex Standard radios are designed to inform you when you and another ARTS™-equipped radio are within communication range. If out of range, your radio senses no signal has been received and beeps to alert you. A great solution to keep workers coordinated.



VXR-1000



The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Vertex Standard radios are built to last and are backed by an industry-leading 3 year warranty.

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www.vertexstandard.com/lmr

Additional Features

- ▶ 16 Channel capacity
- ▶ CTCSS / DCS Encode and Decode
- ▶ D-sub 9 pin connector
- ▶ Local volume control (with external speaker)

Accessories

- ▶ MH-67A8J: Standard microphone
- ▶ MH-53A8J: Noise canceling microphone
- ▶ MLS-100: External speaker, 12 W
- ▶ MLS-200: Waterproof external speaker, 12 W

VXR-1000 Series Specifications

	VHF	UHF
General Specification		
Frequency Range	150 – 174 MHz	450 - 470 MHz
Number of Channels	16	
Power Supply Voltage	13.8 V DC	
Channel Spacing	12.5 / 25* kHz	
Operating Temperature Range	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability	±2.5 ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D)	1.0 x 4.4 x 5.4 inches (25.4 x 111 x 136 mm)	
Weight (Approx.)	14.1 oz (400 g)	
Receiver Specification: measured by TIA/EIA-603		
Sensitivity 12dB SINAD	0.30 µV	0.35 µV
Intermodulation	60 dB	
Spurious and Image Rejection	60 dB	
Audio Output	1 W @ 18 Ohms	
Transmitter Specification: measured by TIA/EIA-603		
Output Power	5 / 2.5 / 1 / 0.5 W	
Modulation	16K0F3E, 11K0F3E	
Maximum Deviation	± 5.0 kHz / ± 2.5 kHz	
Audio Distortion	< 5 % @1 kHz	
Conducted Spurious Emission	60 dB below carrier	

Applicable MIL-STD

Standard	Methods/Procedures		
	MIL 810C	MIL 810D	MIL 810E
Dust	510.1 / I	510.2 / I	510.3 / I
Vibration	514.2 / VIII, X	514.3 / I	514.4 / I
Shock	516.2 / I, II, III, V	516.3 / I, III, IV, V, VI	516.4 / I, III, IV, V, VI