

VXR-9000E Series

VHF/UHF Rack Mount Repeater/Base Station

SPECIFICATION SHEET

High Performance And Reliable Operation

The VXR-9000E is a 25-Watt repeater designed to ensure reliable service during peak spectrum congestion times. The slim-line design is crafted for easy installation and integration into most repeater sites.

Large Channel Capacity With Priority Scan

The VXR-9000E may be programmed with up to 32 channels over a wide frequency range and can perform in repeater or base station mode, depending on the application. Includes Priority Channel scanning capability for efficient communications monitoring.

Power Supply Backup With Alert

Should DC power fail at the repeater site, the VXR-9000E will automatically revert to a backup DC power source, if connected. Under backup DC power, the repeater will transmit an alert message to notify the operator that immediate attention is required at the repeater site.

Flexible, Automatic Command Sequence Configuration

The VXR-9000E may be programmed to perform a five-step sequence of commands for certain operating events. For example, during a DC power failure and the repeater switches to a backup power supply, the repeater can be programmed to switch to low power and send a CW ID advising of the situation, etc.

Designed For High Reliability

The cooling fan diameter is 8 cm and thermostatically controlled to ensure a stable temperature environment for the VXR-9000E. Fan operation may be programmed for three options: off, continuous or temperature-controlled, depending on the application. A malfunction alarm is also included.

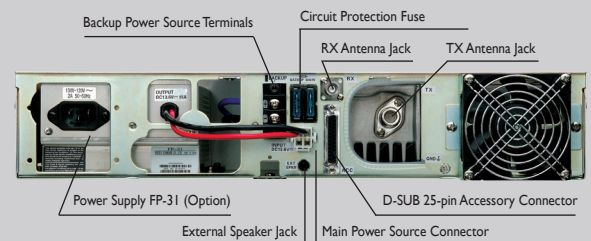
Simplex / Duplex Capability

The VXR-9000E is designed for simplex mode with single-antenna operation or full-duplex mode with the optional VXD-60 duplexer when optimal communications is necessary at all times.



VXR-9000E

483 (W) X 88 (H) X 343 (D) mm



REAR PANEL



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Additional Features

- 6 Dual-function programmable keys
- 47 CTCSS tones / 108 DCS codes encode & decode
- Multi-tone decode
- CW ID Transmitter
- CW Message
- Comander per channel
- D-sub 25 pin accessory connector
- Automatic DC backup switching w/alert
- EIA rack mount size

Accessories

- MH-67A8J: Standard microphone
- MD-12A8J: Desktop microphone
- FP-31: Internal power supply unit
- FIF-9: 4-Wire line interface

Option Boards

- FVP-25: Voice inversion encryption
- FVP-35: Rolling code encryption

Duplexer Options

- VXD-60VC: Duplexer VHF 148 - 160 MHz
- VXD-60UD: Duplexer UHF 440 - 470 MHz

VX-9000E Series Specifications



	VHF	UHF
General Specification		
Frequency Range	134 - 160 MHz (A) 146 - 174 MHz (C)	400 - 430 MHz (A) 440 - 470 MHz (CS)
Number of Channels	32	
Power Supply Voltage	13.6V DC ± 10%	
Channel Spacing	12.5 / 20 / 25 kHz	
PLL steps	2.5 / 5.0 / 6.25 kHz	
Operating Temperature Range	-30° C to +60° C	
Frequency Stability	1.5 ppm, 1.0 ppm (30 min. after wake up)	
RF Input-Output Impedance	50 Ohms	
Dimension (W X H X D)	483 x 88 x 343 mm	
Weight (Approx.)	9.7 kg	
Receiver Specification: measured by EN 300 086		
Sensitivity 20 dB SINAD	-4 dBµV emf	
Selectivity	70 dB / 60 dB	
Intermodulation	70 dB	
Spurious and Image Rejection	70 dB	
Squelch Threshold	0.4 µV (adjustable)	
Audio Distortion	< 3 %	
Conducted Spurious	< -90 dB	
Hum and Noise	> 50 dB	
Audio Frequency Response	De-emphasis 6 dB/oct. (from 300 Hz to 3 kHz)	
Antenna Connector	BNC	
Audio Output	4W @ 4 Ohms	
Transmitter Specification: measured by EN 300 086		
RF Output	25 / 10 / 5 W	
Duty Cycle	50%	
Modulation	16K0F3E, 8K50F3E	
Modulation Limiting	±5.0 kHz / ±2.5 kHz	
Hum and Noise	> 50 dB (Wide), > 45 dB (Narrow)	
Microphone Sensitivity	5 mV	
Antenna Connector	Type-N	
Audio Distortion	< 2.5% @ 1kHz	
Spurious Emission	-36 dBm @ ≤ 1 GHz, -30 dBm @ > 1 GHz	

Specifications are subject to change without notice or obligation.

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