

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.

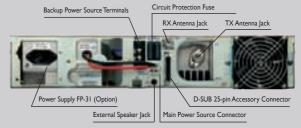
Simplex / Duplex Capability

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





The Vertex Standard Difference

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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
- · Compander per channel
- D-sub 25 pin accessory connector
- · Automatic DC backup switching w/alert
- · EIA rack mount size

Accessories

- MH-67A8]: 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-9 | 000E | Series | Specif | ications |
|-------------|------|---------------|---------------|----------|
| | | | | |



| | 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 | 3 | 32 | |
| Power Supply Voltage | 13.6V DC ± 10% | | |
| Channel Spacing | 12.5 / 20 | 12.5 / 20 / 25 kHz | |
| PLL steps | 2.5 / 5.0 / 6.25 kHz | | |
| Operating Temperature Range | -30° C to | -30° C to +60° C | |
| Frequency Stability | 1.5 ppm, 1.0 ppm (30 | 1.5 ppm, 1.0 ppm (30 min. after wake up) | |
| RF Input-Output Impedance | 50 C | 50 Ohms | |
| Dimension (W X H X D) | 483 x 88 x 343 mm | | |
| Weight (Approx.) | 9.7 kg | | |
| Receiver Specification: mea | sured 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 | 4 W @ 4 Ohms | | |
| Transmitter Specification: r | 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% @ IkHz | | |
| urious Emission -36 dBm @ ≤ I GHz, -30 dBm @ > I GHz | | | |

Specifications are subject to change without notice or obligation.

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