The Vertex Standard Difference
Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Count on Vertex Standard for radios that are built to last and designed to provide more features for a better return on your investment. Ask your Dealer for more details.

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.
VX-9000E Series

SPECIFICATION SHEET

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

<table>
<thead>
<tr>
<th>General Specification</th>
<th>VHF</th>
<th>UHF</th>
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<tbody>
<tr>
<td>Frequency Range</td>
<td>134 - 160 MHz (A)</td>
<td>400 - 430 MHz (A)</td>
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<tr>
<td></td>
<td>146 - 174 MHz (C)</td>
<td>440 - 470 MHz (CS)</td>
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<tr>
<td>Number of Channels</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Power Supply Voltage</td>
<td>13.6 V DC ± 10%</td>
<td></td>
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<tr>
<td>Channel Spacing</td>
<td>12.5 / 20 / 25 kHz</td>
<td></td>
</tr>
<tr>
<td>PLL steps</td>
<td>2.5 / 5.0 / 6.25 kHz</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-30º C to +60º C</td>
<td></td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>1.5 ppm, 1.0 ppm (30 min.after wake up)</td>
<td></td>
</tr>
<tr>
<td>RF Input-Output Impedance</td>
<td>50 Ohms</td>
<td></td>
</tr>
<tr>
<td>Dimension (W x H x D)</td>
<td>483 x 88 x 343 mm</td>
<td></td>
</tr>
<tr>
<td>Weight (Approx.)</td>
<td>9.7 kg</td>
<td></td>
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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: 4 W @ 4 Ohms

Transmitter Specification: measured by EN 300 086
- RF Output: 25 / 10 / 5 W
- Duty Cycle: 50%
- Modulation: 16KOF3E, BK50F3E
- 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% @ 1 kHz
- Spurious Emission: -36 dBm @ ≤ 1 GHz, -30 dBm @ > 1 GHz

Specifications are subject to change without notice or obligation.

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