For robust, dedicated push-to-talk communication, look to the VX-450 Series.

Choose from three analog portable radios: the VX-451 (without display) and the VX-454/VX-459 (with display). Water submersible and available with HazLoc consideration, it’s built for use in harsh conditions and hazardous locations. With enhanced interoperability, the VX-450 series offers comprehensive signaling options including: MDC1200®, DTMF, deeper and richer 2-tone options, as well as 5-tone capabilities. And it integrates seamlessly into a mixed fleet, while allowing your system to grow as your needs do. Compatible with the universal battery system, you’ll eliminate equipment clutter and confusion by standardizing on one charging base for the entire team.
GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>VHF</th>
<th>UHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>134 - 174 MHz</td>
<td>400 - 470 MHz; 450 - 512 MHz</td>
</tr>
<tr>
<td>Number of Channels and Groups</td>
<td>51/2/3 Groups (VX-459, VX-454)</td>
<td>32/2/3 Groups (VX-451)</td>
</tr>
<tr>
<td>Power Supply Voltage</td>
<td>7.5 V DC @ 20%</td>
<td>12.5±2%/5±2.5%</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>1.25/2.5/5.625 kHz</td>
<td>5/6.25 kHz</td>
</tr>
<tr>
<td>Battery Life (5-90 Duty)</td>
<td>18.5 hours (W/Saver)/16 hours</td>
<td>18 hours (W/Saver)/15.5 Hours</td>
</tr>
<tr>
<td>Weight (Approx.) with Antenna, Belt Clip</td>
<td>VX-451: 11.6 oz; 12.6 oz (330 g; 356 g) FNB-V134LI-UNI</td>
<td>VX-454/459: 9.9 oz; 10.8 oz (281 g; 307 g) FNB-V133LI-UNI</td>
</tr>
</tbody>
</table>

RECEIVER SPECIFICATIONS measured by TIA/EIA 603

- Sensitivity 12dB SINAD: 0.25 μV Typical
- Adjacent Channel Selectivity: 70 dB/65 dB
- Hum and Noise: 45 dB/40 dB
- Intermodulation: 70 dB
- Spurious and Image Rejection: 70 dB
- Audio Output: 700 mW (Internal @ 16 Ohms, 5% THD) / 500 mW (External @ 4 Ohms, 5% THD)

TRANSMITTER SPECIFICATIONS measured by TIA/EIA 603

- Output Power: 5/2.5/1.5/0.25 Watt (Selectable by Channel)
- Modulation: 1%SF, 11%SF
- Maximum Deviation: ± 5.0 kHz/± 2.5 kHz
- Conducted Spurious Emissions: 70 dB Below Carrier
- FM Hum and Noise: 45 dB/40 dB
- Audio Distortion: < 3 % @1 kHz

APPLICABLE MIL-STD

Methods/Procedures

- Low Pressure: 500.1 proc 1/2
- High Temperature: 501.1 proc 1/2
- Low Temperature: 502.1 proc 1/2
- Temperature Shock: 503.1 proc 1/2
- Solar Radiation: 505.1 proc 1/2
- Rain: 506.1 proc 1/2
- Humidity: 507.1 proc 1/2
- Salt Fog: 508.1 proc 1/2
- Dust: 510.1 proc 1/2
- Vibration: 512.1 proc 8/10
- Shock: 516.2 proc 1/3/5

ACCESSORIES

- Antennas
  - ATU-16B: 400-420 MHz 6” (15.7 cm)
  - ATU-16BS: 400-430 MHz 3.43” (8.7 cm)
  - ATU-16C: 420-450 MHz 5.94” (15.1 cm)
  - ATU-16D: 450-470 MHz 5.43” (13.8 cm)
  - ATU-16DS: 450-480 MHz 4.34” (8.7 cm)
  - ATU-18F: 470-520 MHz 5.31” (13.5 cm)
- ATU-18A: 136-150 MHz 5.35” (13.7 cm)
- ATU-18B: 150-163 MHz 5.39” (13.7 cm)
- ATU-18XL: Untuned 7.55” (19.2 cm)

- Battery
  - FNB-V133LI-Uni: 1380 mAh Li-Ion Battery
  - FNB-V134LI-Uni: 2300 mAh Li-Ion Battery
  - FBA-41: Alkaline Battery Pack

- Carry Solutions
  - LCC-133LN: Belt Loop Case (FNB-V133LI-Uni) No Display
  - LCC-134LN: Belt Loop Case (FNB-V134LI-Uni) No Display
  - LCC-133SN: Swivel Belt Clip Case (FNB-V133LI-Uni) No Display
  - LCC-134SN: Swivel Belt Clip Case (FNB-V134LI-Uni) No Display
  - LCC-133LD: Belt Loop Case (FNB-V133LI-Uni) Display
  - LCC-134LD: Belt Loop Case (FNB-V134LI-Uni) Display
  - LCC-133SD: Swivel Belt Clip Case (FNB-V133LI-Uni) Display
  - LCC-134SD: Swivel Belt Clip Case (FNB-V134LI-Uni) Display
- VX-451
- VX-454