VX-2100/2200 Series

VHF/UHF Mobile Radios

Compact, Full-Featured Performance for Maximum Value

With 50 W VHF and 45 W UHF power output for effective communications transmission, the VX-2100/2200 Series provides reliability, extensive signaling features and enhanced channel capacity for maximum return on your investment.

Compact, Durable Construction

Installs easily in small spaces. Die-cast aluminum construction helps dissipate heat and absorbs vibration for durability.

Broad Channel Capacity

Get 8 channels for easy operation with the VX-2100 Series or 128 channels for large group communications in the VX-2200 Series.

More Scanning Options

Compared to other mobile two-way radios in its class, the VX-2100/2200 Series provides scanning features designed to optimize operation. Built-in scan options: Basic, Priority, Dual Watch, Follow-me, Follow-me Dual Watch and Talk Around.

When Safety Counts

The VX-2100/2200 Series includes built-in Emergency and Lone Worker alerts for enhanced driver safety. A panic button can be triggered from the front panel to alert the dispatcher when problems arise.

Easily Integrate with Existing MDC System

Add the optional VME-100 board to make VX-2100/2200 mobile radios compatible for use with the rest of your MDC-1200® fleet.

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.

VX-2200

VX-2100

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Additional Features

- Six programmable keys
- 8-Character alphanumeric display (VX-2200)
- 1-Character numeric display (VX-2100)
- RSSI signal strength indicator
- 2-Tone Encode and Decode
- 5-Tone signaling
- CTCSS / DCS Encode and Decode
- BCLO, BTLO, TOT Functions
- DTMF Paging
- DTMF Speed dial
- Stun / kill / revive (5-tone)
- Remote listen
- Lone Worker
- Programmable minimum volume
- D-Sub 15 Pin accessory connector
- Public address / horn alert
- Radio-to-radio cloning

Accessories

- MH-67A8J: Standard microphone
- MH-75A8J: Keypad microphone (16 keys)
- MD-12A8J: Desktop microphone
- MLS-100: External speaker, 12 W
- MLS-200: Waterproof external speaker, 12 W
- LF-1: DC Line Filter
- SEC-1223: External power supply

Option Boards

- FVP-25: Voice Inversion Encryption and DTMF Paging
- FVP-35: Rolling Code Encryption
- FVP-36: Voice Inversion Encryption only
- VME-100: MDC-1200® / GE-STAR® ANI Encode

VX-2100/2200 Series Specifications

	VHF	UHF
General Specification		
Frequency Range	134 - 174 MHz	400 - 470 MHz; 450 - 520 MHz
Number of Channels and Groups	128 and 8 Groups (VX-2200) 8 and 1 Group (VX-2100)	
Power Supply Voltage	13.6 V DC ± 15%	
Channel Spacing	12.5 / 20 / 25 kHz	
PLL Steps	2.5 / 5 / 6.25 kHz	5 / 6.25 kHz
Current Consumption	TX: 11 A (50 W, 45 W), 6 A (25 W) RX: 2.5 A, Standby: 200 mA	
Operating Temperature Range	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability	Better than ±2.5 ppm	
RF Input-Output Impedance	50 Ohms	
Dimension (H x W x D)	1.8 x 6.5 x 6.1 inches (45 x 165 x 155mm)	
Weight (Approx.)	2.87 lbs (1.3 kg)	
Receiver Specification: measured by TIA/EIA-603		
Sensitivity 12dB SINAD	0.25 µV	
Adjacent Channel Selectivity	75 dB / 65 dB	73 dB / 65 dB
Intermodulation	73 dB / 70 dB	
Spurious and Image Rejection	90 dB	80 dB
Audio Output	Internal: 4 W @ 18 Ohms, 5% THD External: 12 W @ 4 Ohms, 5% THD	
Transmitter Specification: measured by TIA/EIA-603		
Output Power	50 / 25 / 10 W (50 W) 25 / 12.5 / 5 / 1 W (25 W)	45 / 25 / 10 W (45 W) 25 / 12.5 / 5 / 1 W (25 W)
Modulation	16K0F3E, 11K0F3E	
Maximum Deviation	± 5.0 kHz / ± 2.5 kHz	
Audio Distortion	< 3 % @1 kHz	
Conducted Spurious Emission	70 dB below carrier	

Applicable MIL-STD

Methods/Procedures				
Standard	**MIL 810C**	**MIL 810D**	**MIL 810E**	**MIL 810F**
High Temperature	501.1 / II	–	–	–
Low Temperature	502.1 / I	–	–	–
Blowing Sand and Dust	–	–	510.3 / I	–
Vibration	514.2 / VIII, X	514.3 / I Cat. 10	514.4 / I Cat. 10	514.5 / I Cat. 20, 24
Shock	516.2 / I, V	516.3 / I, IV	516.4 / I, IV	516.5 / I, IV, VI