VX-2100/2200 SERIES VHF/UHF Mobile Radios



Vertex Standard We make a difference

VX-2100/2200 Series VHF/UHF Mobile Radios

The VX-2100 (8-channel) and VX-2200 (128-channel) series mobiles are full featured FM transceivers designed for flexible mobile business communications in the VHF or UHF Land Mobile Radio bands. These transceivers are designed for reliable business communications in a wide variety of applications with a wide range of operating capability provided by their leading-edge design with high output power (50 Watts VHF/45 Watts UHF). The VX-2200 mobiles have an eight character alpha-numeric display to manage the 128 channel capacity.

128 Channel Capacity VX-2200 / 8 Channel Capacity VX-2100

For easy of operation the 8-channel VX-2100 is your workhorse radio. For larger systems, the VX-2200 gives you 128 channels to get the job done.

Power Output: 50 Watts (VHF) / 45 Watts UHF

With 50 watts output on VHF and 45 Watts output on UHF, the new VX-2100 and VX-2200 have the power to get your message through.

Wide Band Coverage

(VHF 134-174 MHz / UHF 400-470 MHz or 450-520 MHz)

The new VX-2100 and VX-2200 continue with our efforts to give you the maximum flexibility possible with ultra-wide band coverage.

Loud Front Speaker Audio

The front facing speaker and 4 Watts of audio power gives you plenty of receiver audio even in noisy environments.

Signaling Features

The VX-2100 and VX-2200 mobiles have plenty of built-in signaling to offer. Besides the standard CTCSS and DCS subaudible signaling, these mobiles also include 2-tone encode and decode, DTMF ANI and 5-tone encode and decode.

Emergency Feature

Excellent for school bus drivers, delivery vans, or any other application where you do not want the driver to be "on their own". With the built-in Emergency feature, a silent alarm can be sent and transmit live audio to the dispatcher.

Specifications

	VX-2100/2200 VHF	VX-2100/2200 UHF		
General Specifications				
Frequency Range	134-174 MHz	400-470 MHz or 450-520 MHz		
Number of Groups	1/8			
Number of Channels	8/128			
Power Supply Voltage	13.6 V DC ±15 %			
Channel Spacing	12.5/20/25 kHz			
Current Consumption (Approx.)	TX: 11 A, RX: 2.5 A, Standby: 250 mA			
Operating Temperature Range	-30° C - +60° C			
Frequency Stability	Better than ±2.5 ppm			
RF Input-Output Impedance	50 Ohm			
Dimension (W x H x D)	165 x 45 x 155 mm			
Weight (Approx.)	1.3 kg			

Specification may be changed without notification.

Accessories & Options

D-SUB 15 pin Accessory Connector

Connecting outboard devices is easy using the rear mounted 15 pin accessory connector.

Optional Signaling Features

DTMF decode paging is available with the FVP-25. The FVP-25 also includes a simple inversion scrambler. The FVP-35 offers rolling code type encryption. The VME-100 board gives you MDC-1200[®] (and GE-Star[®]) encode feature to operate in existing systems.

Rugged, Die-cast Construction

The VX-2100/2200's circuitry is housed within a die-cast aluminum enclosure, which doubles as a heat sink. This extraordinarily durable construction ensures many years of reliable operation, even in highvibration installations.



MIL-Spec Rated (MIL 810 C/D/E/F)

The ultra-rugged design of the VX-2100/2200 enables it to be fully compliant with the exacting specifications of MIL 810 C/D/E/F, pursuant to the test procedures documented below.

APPLICABLE MIL-STD (Pending)				
Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
High Temperature	501.1/Procedure II			
Low Temperature	502.1/Procedure I			
Blowing Sand & Dust			510.3/Procedure I	
Vibration	514.2/Procedure VIII, X	514.3/Procedure I,Cat.10	514.4/Procedure I,Cat.10	514.5/Procedure I,Cat.20,24
Shock	516.2/Procedure I,V	516.3/Procedure I,IV	516.4/Procedure I,IV	516.5/Procedure I,IV,VI

	VX-2100/2200 VHF	VX-2100/2200 UHF		
Receiver Specifications	Measured by TIA/EIA-603-A			
Sensitivity (12 dB SINAD)	0.25 μV	0.25 μV		
Adjacent Channel Selectivity	75 / 65 dB	73 / 65 dB		
Intermodulation	73 / 70 dB			
Spurious and Image Rejection	90 dB	80 dB		
Audio Output	Internal: 4 W @ 18 Ω, 5 % THD			
	External: 12 W @ 4 Ω, 5 % THD			
Transmitter Specifications	Measured by TIA/EIA-603-A			
Output Power	50 / 25 / 10 W	45 / 25 / 10 W		
Modulation	16K0F3E, 11K0F3E			
Maximum Deviation	±5.0 kHz / ±2.5 kHz			
Audio Distortion	< 3 % @1 kHz			
Conducted Spurious Emission	70 dB below carrier			

MH-67AsJ Standard Microphone	MH-64ABJ Keypad Microphone	FVP-25 DTMF Paging/ Voice Inversion Type Encryption Unit	FVP-35 Rolling Code Encryption Unit	VT60F/VT60FS (FS : w/ Encryption) VX-Trunk Unit	MLS-100 External Speaker (12 W Peak Power)	MLS-200 External Speaker (12 W Peak Power)	CT-4 (T9101411) Cloning Cable	LF-1 Line Filter
MH-25A8J Standard Microphone	MD-11ABJ Desktop Microphone	FVP-36 Voice Inversion Type Encryption Unit	VME-100 ANI Encode Unit	FP-1030A External Power Supply (13.8 VDC 25 A)	FIF-10A USB Programming Interface	CT-104A Programming Cable for FIF-10A	VPL-1 Programming Kit (Computer to PC)	CE82 PC Programming Software

Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Vertex Standard Dealer for complete details.

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