VX-2100E/2200E SERIES

VHF/UHF Mobile Radios



VX-2100E/2200E Series VHF/UHF Mobile Radios

The VX-2100E (8-channel) and VX-2200E (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 output power 25 W. The VX-2200E mobiles have an eight character alpha-numeric display to manage the 128 channel capacity.

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

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

Wide Band Coverage

(VHF 134-174 MHz / UHF 400-470 MHz)

The new VX-2100E and VX-2200E 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-2100E and VX-2200E mobiles have plenty of built-in 5- tone signaling including Remote Radio Stun/Kill/Revive feature to offer. Besides the standard CTCSS and DCS sub-audible signaling, these mobiles also include 2-tone encode/ decode and DTMF ANI.

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.

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 MDC1200® (and GE-Star®) encode feature to operate in existing systems.

Rugged, Die-cast Construction

The VX-2100E/2200E'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-2100E/2200E 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						
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		

Specifications

	VX-2100E/2200E VHF	VX-2100E/2200E UHF		
General Specifications				
Frequency Range	134-174 MHz	400-470 MHz		
Number of Groups	1/8			
Number of Channels	8/128			
Power Supply Voltage	10.8 - 15.6 V DC			
Channel Spacing	12.5/20/25 kHz			
Current Consumption (Approx.)	TX: 6 A, RX: 2.5 A, Standby: 200 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			

Applicable Standards: EN300 086, 113, 219 · EN301 489 · EU directive 2004/104/EC Specifications are subject to change without notice or obligation.

	VX-2100E/2200E VHF	VX-2100E/2200E UHF	
Receiver Specifications	Measured by EN300 086		
Sensitivity 20 dB SINAD (W/N)	-4 dB μV / -2 dB μV		
Adjacent Channel Selectivity	75 / 68 dB	70 / 65 dB	
Intermodulation	68 dB		
Spurious Response Rejection	80 dB		
Audio Output	Internal: 4 W @ 18 Ω, 5 % THD		
	External: 12 W	@ 4 Ω, 5 % THD	
Spurious Radiations	-57 dBm		
Transmitter Specifications	Measured by EN300 086		
RF Output Power	25 / 12.5 / 5 / 1 W		
Maximum Deviation	±2.5 kHz / ±4.0 kHz / ±5.0 kHz		
(12.5/20/25 kHz)			
FM noise (W/N)	50 / 44 dB	48 / 42 dB	
Audio Distortion	Less than 3 % @1 kHz		
Spurious Emissions	-36 dBm ≤ 1 GHz		
	-30 dBm > 1 GHz		

Accessories & Options

















MH-25A8J









Programming Cable	USB	FIF-10A + CT-104A
	RS-232C	CT-29 + CT-126
Programming Software	CE82	



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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