



# Vertex Standard

*We make the difference*

- 8 Channel capacity / VX-2100
- 128 Channel capacity / VX-2200
- Power output: 25 W (VHF) / 25 W (UHF)
- Wide band coverage: VHF 134-174 MHz / UHF 400-470 MHz
- Loud front speaker audio
- CTCSS / DCS encode/decode
- DTMF ANI
- 2 Tone encode/decode
- 5 Tone signaling built-in
- Emergency feature
- D-SUB-15 PIN accessory connector
- ARTS™ (Auto-Range Transpond System)
- DTMF paging (option)
- Encryption (option): Voice inversion/rolling code
- MDC-1200® / GE-STAR® ANI encode (option)
- VX-TRUNK (option)
- MIL-STD 810 C/D/E/F
- 50W VHF/45W UHF Version available export only



## VX-2100/2200

VHF/UHF Mobile Radios

# MOBILE

**The VX-2100 (8 channel) & VX-2200 (128 channel) series mobiles are fully featured transceivers designed for flexible mobile business communications in the VHF/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 25 Watt (50 Watts export only). The VX-2200 mobiles have an eight character alpha-numeric display to manage the 128 channel capacity.**

**128 CHANNEL - VX-2200 / 8 CHANNEL - VX-2100**

For ease 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: 25 WATTS (VHF) / 25 WATTS (UHF)**

With 25 Watt (50 Watt export only) output on UHF, the new VX-2200 & VX-2100 have the power to get your message through.

**WIDE BAND COVERAGE (VHF 134-174MHz / UHF 400-470MHz)**

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 / DCS sub-audible signaling, these mobiles also include 2 tone encode/decode, DTMF ANI & 5 tone encode/decode.

**D-SUB 15 PIN ACCESSORY CONNECTOR**

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

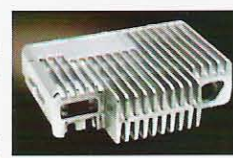
**EMERGENCY FEATURE**

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.

**OPTIONAL SIGNALING FEATURES**

DTMF decode paging is available with the FVP-25. The FVP-25 also includes simple inversion scrambler. The FVP-35 offers rolling code type encryption. The VME-100 board gives you MDC-1200® & 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 aluminium enclosure, which doubles as a heat sink. This extraordinary durable construction ensures many years of reliable operation, even in high vibration installations.

**MIL-SEC RATED (810 C/D/E/F)**

The ultra rugged design of the VX2100/2200 enables it to be fully compliant with the exacting specifications of MIL 810 C/D/E/F, pursuant to the test procedures documented below.

**ACCESSORIES & OPTIONS**

 <b>MH-67A8J</b> Standard microphone	 <b>MH-64A8J</b> Keypad microphone
 <b>MH-25A8J</b> Standard microphone	 <b>MD-11A8J</b> Desktop microphone
 <b>FVP-25</b> DTMF Paging/Voice inversion type encryption unit	 <b>FP-1030A</b> External power supply (13.8 VDC 25A)
 <b>VT60F/VT60FS(w/Encryption)</b> VX-Trunk unit	 <b>FVP-35</b> Rolling code encryption unit
 <b>FVP-36</b> Voice inversion type encryption unit	 <b>VME-100</b> ANI encode unit
 <b>MLS-100</b> External speaker (12W peak power)	 <b>MLS-200</b> External speaker (12W peak power)
 <b>CT-4(T9101411)</b> Cloning cable	 <b>CT-104A</b> Programming cable (for FIF-10A)
 <b>LF-1</b> Line filter	 <b>FIF-10A</b> USB Programming interface
 <b>VPL-1</b> Programming kit (computer to radio)	 <b>CE-82</b> Programming software

**SPECIFICATIONS**

General Specifications	VX-2100/2200 VHF	VX-2100/2200 UHF
Frequency Range	134-174MHz	400-474MHz
Number of Groups		1 / 8
Number of Channels		8 / 128
Power Supply Voltage		13.6 VDC ± 15%
Channel Spacing		12.5 / 20 / 25kHz
Current Consumption (Approx.)	TX:5A (25W), TX:7A (45W), TX:11A (50W), RX:2.5A, Standby:250mA	
Operating Temperature Range	-30°C to +60°C	
Frequency Stability	Better than ± 2.5ppm	
RF Input-Output Impedance	50 Ohm	
Dimensions (W x H x D)	165mm X 45mm X 155mm	
Approx Weight	1.3Kg	
<b>Receiver Specifications</b>	Measurements made per EIA standard TIA / EIA-603	
Sensitivity: (12dB SINAD)	0.25 µV	0.25 µV
Adjacent Channel Selectivity	75 / 65dB	73 / 65dB
Intermodulation	73 / 70dB	
Spurious & Image Rejection	90dB	80dB
Audio Output	Internal: 4 Watts @ 18 Ω, 5% THD External: 12 Watts @ 4 Ω, 5% THD	
<b>Transmitter Specifications</b>	Measurements made per EIA standard TIA / EIA-603	
Spurious & Image Rejection	50 / 25 / 10 Watts	45 / 25 / 10 Watts
Modulation	16K 0F 3E / 11K 0F 3E	
Maximum Deviation	± 5.0kHz / ± 2.5kHz	
Audio Distortion (@ 1kHz)	< 3%	
Conducted Spurious Emission	70dB below carrier	

*Measurements per EIA standards unless noted above. Specifications subject to change without notice or obligation.*

**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

**Vertex Standard**  
We make the difference

11 Villa Valencia Office Park,  
Anemoon Street, Glen Marais  
PO Box 17065,  
Norkem Park 1631



Tel: +27 (11) 979-3752  
Fax: +27 (11) 979-4372  
Website: www.verstay.co.za  
Email: sales@verstay.co.za