

VX-4100/4200SERIES

VHF/UHF Mobile Radios



- HIGH POWER OUTPUT (50W VHF/45W UHF)
- WIDE FREQUENCY SPAN
134-174 MHz (VX-4104/4204)
400-470 MHz / 450-512 MHz (VX-4107/4207)
- 501 CHANNELS/32 GROUPS (VX-4200 SERIES)
- 8 CHANNELS (VX-4100 SERIES)
- LARGE LCD WITH 12-CHARACTER ALPHA-NUMERIC LABELS AND OPERATING STATUS ICONS (VX-4200)
- WIDE/NARROW DEVIATION (12.5/20/25 kHz), PROGRAMMABLE PER CHANNEL
- CTCSS AND DCS ENCODE/DECODE
- DTMF ANI AND PAGING
- 2-TONE ENCODE AND MULTIPLE 2-TONE DECODE
- 5-TONE SIGNALLING BUILT IN
- USER-SELECTABLE TONES
- INTEROPERABILITY RECEIVER (OPTIONAL MULTI BAND RECEIVER UNIT REQUIRES)
- CHANNEL SCAN PLUS PRIORITY SCAN, DUAL WATCH, AND FOLLOW-ME SCAN/DW
- BUILT-IN EMERGENCY MICROPHONE
- AUDIO COMPANDER (WIDE/NARROW-BAND)
- LOUD AUDIO OUTPUT FRONT SPEAKER
- BCLO, BTLO, AND TOT
- REMOTE RADIO STUN/KILL/REVIVE(5-TONE)
 - PUBLIC ADDRESS/HORN ALERT
 - PROGRAMMABLE MINIMUM VOLUME
 - PROGRAMMABLE FUNCTION KEYS
 - USER "SET" (MENU) MODE
 - D-SUB 15-PIN ACCESSORY CONNECTOR
 - ARTS™ (AUTO-RANGE TRANSPONDER SYSTEM)
 - OPTIONAL ENCRYPTION
 - OPTIONAL VOICE STORAGE
 - MIL-STD 810 C/D/E



VX-4100/VX-4200

SERIES





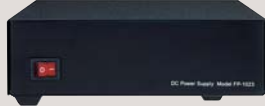



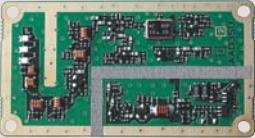
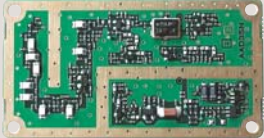
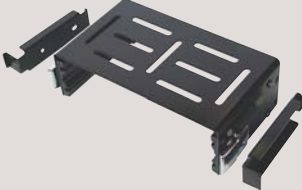

Public Safety applications require three essential elements: reliability, ruggedness, and performance versatility. These three elements are found in the VX-4100 (8-Channel) and VX-4200 (501-Channel) series of FM Mobiles from Vertex Standard. New interoperability Receiver (Option), wide programmable frequency coverage, high power output (50 Watts VHF/45 Watts UHF), leading-edge signaling capability, and a 12-character alpha-numeric display are just a few of the many reasons why the VX-4100 and VX-4200 are the best choice for the most demanding Public Safety environments.

VX-4100 Series

VX-4200 Series

Actual Size

Accessories & Options

			
MH-25A8J	MH-64A8J	MH-700D	MD-11A8J
Standard Microphone	Remote Control 16 Keypad Microphone	DTMF Dial Microphone	Desktop Microphone
			
MLS-200	MLS-100	FP-1023	FVP-25
Mobile Loud Speaker (15 Watts Peak Power)	Mobile Loud Speaker (12 Watts Peak Power)	External Power Supply (13.6 VDC 23 A)	DTMF Paging + Encryption unit
			
FVP-35	DVS-5	VT60F / VT60FS	MDC1200
High Level Encryption Unit	Voice Storage Unit	VX-Trunk™ Unit (FS : w/Encryption)	ANI Signaling Unit
			
SRX-1	SRX-2	MMB-85	LF-1
Multi Band Receive Unit (450-512 MHz)	Multi Band Receive Unit (134-174 MHz)	Quick Release Mobile Mounting Bracket	Line Filter
			
VPL-1	CT-4 (T9101411)	CE59	
Programming Kit (Computer to Radio)	Cloning Cable	Programming Software	

Specifications

	VX-4104 (VHF)	VX-4204 (VHF)	VX-4107 (UHF)	VX-4207 (UHF)
General Specifications				
Frequency range	134-174 MHz		400-470 MHz / 450-512 MHz	
Number of Groups	1	32	1	32
Number of Channels	8 channels	501 channels	8 channels	501 channels
Power Supply Voltage	13.6 VDC \pm 15 %			
Channel Spacing	12.5 / 20 / 25.0 kHz			
Current Consumption	TX:11.0 A		RX:2.5 A	STBY:0.3 A
Operating Temperature range	-22° F to 140° F (-30° C to +60° C)			
Frequency Stability	Better than \pm 2.5 ppm			
RF Input-Output Impedance	50 Ohms			
Dimensions (WxHxD)	6.5 " x 1.7 " x 6.1 " (165 mm x 43 mm x 155 mm)			
Weight	3.1 lbs. (1.4 kg)			
Receiver Specifications				
Measurements made per TIA/EIA-603				
Circuit type	Double conversion Super-heterodyne			
Sensitivity (12 dB SINAD)	0.25 μ V		0.25 μ V	
Adjacent Channel Selectivity	85/75 dB		78/70 dB	
Intermodulation	80/75 dB			
Spurious and Image Rejection	90 dB		80 dB	
Audio Output	int. 2 W @ 32 Ohms 5% THD / ext. 12 W @ 4 Ohms 5% THD			
Audio Distortion	<3 % @1 kHz			
Transmitter Specifications				
Measurements made per TIA/EIA-603				
Power Output	50/25/10 W		45/25/10 W	
Modulation	16K0F3E, 11K0F3E			
Max Deviation	5.0/2.5 kHz			
Conducted Spurious Emission	75 dB below carrier			
Audio Distortion	<3 % @ 1 kHz			
Microphone impedance	600 Ohms			

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

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

ISO9001



Sukagawa Division
Trondule Co., Ltd.
ISO9001 certification

ISO 14001



Sukagawa Division
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ISO14001 certification



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