

VX -4204/4207 SERIES

VHF/UHF Mobile Radios

- HIGH POWER OUTPUT
- WIDE FREQUENCY SPAN
134-174 MHz
400-470 MHz / 450-512 MHz
- 501 CHANNELS/32 GROUPS
- LARGE LCD WITH 12-CHARACTER ALPHA-NUMERIC LABELS AND OPERATING STATUS ICONS
- 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



Specifications

	VX-4104 (VHF)	VX-4204 (VHF)	VX-4107 (UHF)	VX-4207 (UHF)
General Specifications				
Frequency range	134-174 MHz		400-470 MHz 450-520 MHz	
Number of Groups	1	32	1	32
Number of Channels	8 channels	501 channels	8 channels	501 channels
Channel Spacing	12.5 / 20 / 25.0 kHz			
PLL Stepping	5/6.25 kHz			
Operating voltage	10.8 – 15.6 VDC			
Current drain	0.3 A			
Standby	2.5 A			
Receive	11 A (45 W) / 6.0 A (25 W/EN)			
Transmit				
Operating Temperature range	-22° F to 140° F (-30° C to +60° C)			
Frequency Stability	Better than ±2.5 ppm			
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				
Sensitivity	EIA 12dB SINAD 0.25 µV		0.35 µV	
	EN 20dB SINAD (W/N) -4 dB µV / -2 dB µV		-3 dB µV / -2 dB µV	
Adjacent Channel Selectivity	EIA (W/N) 85 / 75 dB	78	/ 70 dB	
	EN (W/N) 85 / 70 dB		7 5 / 65 dB	
Intermodulation	EIA (W/N) 80 / 75 dB		80 / 75 dB	
	EN 70 dB		70 dB	
Spurious response Rejection	EIA 90 dB		80 dB	
	EN 80 dB		80 dB	
Audio output	Internal: 2 W @ 32 ohms 5 % THD External: 12 W @ 4 ohms 5 % THD			
Spurious Radiations	-57 dBm			
Transmitter Specifications				
RF power output	45 / 25 / 10 W or 25/12.5/5 W (EN)			
Maximum Frequency Deviation (12.5/20/25 kHz)	±2.5/±4.0/±5.0 kHz			
FM noise (W/N)	50 / 44 dB		48 / 42 dB	
Audio distortion	Less than 3% @ 1kHz			
Spurious Emissions (EN)	-36 dBm < 1 GHz -30 dBm > 1 GHz			

Measurements per (EIA: TIA/EIA-603, EN:EN 300 086) 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
Low Pressure		500.2/3Procedure I	500.2/3Procedure I
High Temperature	501.1/Procedure I,II	501.2/3Procedure I,II	501.2/3Procedure I,II
Low Temperature	502.1/Procedure I	502.2/3Procedure I,II	502.2/3Procedure I,II
Temperature Shock	503.1/Procedure I	503.2/3Procedure I	503.2/3Procedure I
Solar Radiation		505.2/3Procedure I	505.2/3Procedure I
Rain (Blowing)			506.2/Procedure II
Rain (Drip)		506.2/3Procedure II	506.3/Procedure I,II
Humidity	507.1/Procedure II	507.2/3Procedure II	507.2/3Procedure II
Salt Fog		509.2/3Procedure I	509.2/3Procedure I
Blowing Sand & Dust			510.3/Procedure I
Vibration	514.2/Procedure I,VIII		514.3/Procedure IV,X
Shock (Basic Design)	516.2/Procedure I,V		

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