

VXD-7200

Digital Mobile Radio

SPECIFICATION SHEET

DMR TIER 2 STANDARD

Clear, Quality Communications

Easily convert from analogue to digital two-way radio communications with the VXD-7200 mobile radio, providing the essential voice and text communications needed. The VXD digital radio series operates on the most widely-used digital protocol – DMR (Digital Mobile Radio), making it compatible to work with other DMR models and brands. The VXD Series can also be used with existing analogue two-way radios for an easy transition to new equipment and maximum return on investment.

Easy Digital Conversion: Operate in Analogue or Digital Mode

The VXD-7200 can operate in both analogue and digital modes providing an easy path to switch to digital when ready. This flexibility enables conversion to digital one radio at a time, one channel at a time or the entire system at once based on functional or fiscal needs. Includes dual-mode analogue and/or digital scan as well as mixed mode priority scan to easily operate in digital and still scan and communicate with analogue radio users of any brand.

Digital Doubles Call Capacity With One Licence

All Vertex Standard VXD radios use Time-Division Multiple-Access (TDMA) 6.25 kHz efficient digital technology that doubles the capacity for the price of one frequency licence. The radios support twice as many talk groups or calls without adding more licensing costs.

Digital Delivers Consistent, Clear Audio Quality

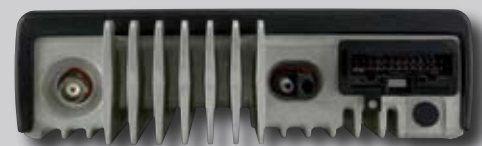
Experience enhanced voice clarity and reduced noise over a greater range versus analogue technology for consistently crisp, clear communications.

Digital Delivers Integrated Voice and Text for Efficiency

Includes text messaging in digital mode for flexible communications between radios. Receive messages or send up to 10 different pre-set messages using one-touch button system.



VXD-7200



Back

175mm (W) x 51mm (H) x 206mm (D)

The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Vertex Standard radios are built to last and are backed by a comprehensive 1-year warranty – another great reason to choose Vertex Standard. Ask your Dealer for more details.

Additional Features

- 512 Channel capacity
- Four programmable front panel keys
- 40 Character alphanumeric display
- Multi-colour LED custom call alert
- Digital encode/decode: call alert, private call, emergency, selective radio inhibit, radio check and remote monitor
- MDC-1200[®] analogue encode/decode: call alert, emergency and PTT ID
- 2-Tone Analogue paging: call alert, call alert with voice and select call
- Basic privacy encryption (optional, digital mode only)
- Voice activated transmit (VOX)
- Contact list for up to 1,000 records
- Scan options: dual mode (analogue or digital); mixed mode priority scan (digital only)
- AMBE+2[™] Digital vocoder
- 26-Pin accessory connector

Accessories

- MH-67A8J: Standard microphone
- MH-75A8J: Keypad microphone
- MH-53A8J: Heavy duty microphone
- MD-12A8J: Desktop microphone
- DTT-1: Desktop tray
- CT-149: Rear accessory connector universal cable
- CT-148: Ignition sense cable
- MMB-93: Low profile mounting kit
- MMB-94: High profile mounting kit
- MMB-95: Key lock mounting kit
- MMB-96: In dash mounting kit
- E-DC-27: Power cable 15 Amp, 10 ft.
- E-DC-28: Power cable 20 Amp, 20 ft.

VXD-7200 Specifications

	VHF	UHF
General Specification		
Frequency Range	136 – 174 MHz	403 – 470 MHz 450 – 512 MHz
Number of Channels and Groups	512 Channels and 512 Groups	
Power Supply Voltage	13.6V DC ± 20%	
Channel Spacing	12.5 / 20 / 25 kHz	
Current Consumption	TX @ 1-25 W: 11.0 A max	
	TX @ 25-40 W: 14.5 A max	
	RX: 2 A max, Standby: 0.81 A max	
Operating Temperature Range	-30° C to +60° C (-22° F to +140° F)	
Frequency Stability	±0.5 ppm	
Dimension (H x W x D)	51 x 175 x 206 mm (2.01 x 6.89 x 8.11 inches)	
Weight (Approx.)	1.8 kg (4.0 lbs)	
Receiver Specification: measured by EN 300 086		
Sensitivity:		
Analogue 12dB SINAD	0.3 µV 0.22 µV typical	
Digital	5% BER: 0.3 µV	
Adjacent Channel Selectivity:		
TIA603	65 dB @ 12.5 kHz, 80 dB @ 25 kHz	65 dB @ 12.5 kHz, 75 dB @ 25 kHz
TIA603C	50 dB @ 12.5 kHz, 80 dB @ 25 kHz	50 dB @ 12.5 kHz, 75 dB @ 25 kHz
Intermodulation	78 dB	75 dB
Spurious Rejection	80 dB	75 dB
Audio Output	3 W (Internal)	
	7.5 W (External @ 8 Ohms)	
	13 W (External @ 4 Ohms)	
Audio Distortion	3% Typical	
Hum and Noise	-40 dB @ 12.5 kHz	
	-45 dB @ 25 kHz	
Conducted Spurious Emission	-57 dBm	
Transmitter Specification: measured by EN 300 086		
Output Power	1 – 25 W	1 – 25 W
	25 – 45 W	25 – 40 W 1 – 40 W
Modulation Limiting	± 2.5 kHz @ 12.5 kHz, ± 5.0 kHz @ 25 kHz	
Conducted/Radiated Emission	-36 dBm < 1 GHz, -30 dBm > 1 GHz	
FM Hum & Noise	-40 dB @ 12.5 kHz, -45 dB @ 25 kHz	
Adjacent Channel Power	60 dB @ 12.5 kHz, 70 dB @ 25 kHz	
Audio Distortion	3%	
FM Modulation	11K0F3E, 16K0F3E	
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD	
	12.5 kHz Data & Voice: 7K60FXE	
Digital Protocol	ETSI TS 102 361-1, -2, -3	

Applicable MIL-STD

	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.3 / II	500.4 / II
High Temperature	501.3 / IA, II/A1	501.4 / I/HOT, II/HOT
Low Temperature	502.3 / I/C3, II/C1	502.4 / I/C3, II/C1
Temperature Shock	503.3 / I/A1C3	503.4 / I
Solar Radiation	505.3 / I	505.4 / I
Rain	506.3 / I, II	506.4 / I, III
Humidity	507.3 / II	-
Salt Fog	509.3 / I	509.4 / I
Dust	510.3 / I	510.4 / I
Vibration	514.4 / I Cat. 10, II/3	514.5 / I Cat. 24
Shock	516.4 / I, IV	516.5 / I, IV

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