

DMRTIER 2 STANDARD

VXD-7200

Digital Mobile Radio

SPECIFICATION SHEET

Clear, Quality Mobile Communications

The VXD-7200 conventional mobile radio makes converting from analog to digital easy. The VXD digital radio series operates on the most widely-used Digital Mobile Radio (DMR) protocol, making it compatible to work with other DMR models and brands. The VXD Series can also be used with any existing analog two-way radios for an easy transition to new equipment and maximum return on investment.

Invest Today In Digital - Convert From Analog As Needed

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

Digital Doubles Call Capacity With One License

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 license. 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 analog technology for consistently crisp, clear communications

Digital Delivers Integrated Voice and Text for Efficiency

Includes text messaging in digital mode for flexible communications. Radio display features 40 characters of text. Receive messages or send up to 10 different pre-set messages using I-touch button system.

FCC Narrowbanding Compliant

Meets the FCC Part 90 requirement for using 12.5 kHz channels by January 1, 2013.VXD radios enable users to keep existing 12.5 kHz channels and double the call capacity with the two-slot TDMA technology. Using digital meets the FCC recommendation to convert directly to 6.25 kHz efficient equipment for greater spectrum efficiency.



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 an industryleading 3 year warranty – another great reason to choose Vertex Standard. Ask your Dealer for more details.



VXD-7200



BACK

SPECIFICATION SHEET

Additional Features

- 512 Channel capacity
- Four programmable front panel keys
- 40 Character alphanumeric display
- Multi-color LED custom call alert
- 26-Pin accessory connector
- Basic privacy (digital mode only)
- MDC-1200[®] analog encode/decode: call alert, emergency and PTT ID
- Digital encode/decode: call alert, private call, emergency, selective radio inhibit, radio check and remote monitor
- 2-Tone Analog paging: call alert, call alert with voice, select call

Accessories

- MH-67A8]: Standard microphone
- MD-12A8J: Desktop microphone
- DTT-I: 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 G	roups 512 Channels a	nd 512 Groups		
Power Supply Voltage	13.6 V DC ± 20%			
Channel Spacing	12.5 / 25 kHz			
	TX @ I-25 V	TX @ I-25 W: II.0 A max		
Current Consumption	TX @ 25-40 W: 14.5 A max			
	RX: 2 A max, Standby: 0.81 A max			
Operating Temperature Rar	ge -22° F to +140° F (-30° C to +60° C)			
Frequency Stability	±0.5 ppm			
Dimension $(H \times W \times D)$) 2.01 x 6.89 x 8.11 inches (51 x 175 x 206 mm)			
Weight (Approx.)	4.0 lbs (1.8 kg)			
Receiver Specification	n: measured by TIA/EIA-6030	0		
Sensitivity:				
Analog 12dB SINAD	0.3 μV 0.22 μV typical			
Digital	5% BER: 0.3 µV			
Adjacent Channel Selectivity	<i>r</i> :			
TIA603 65	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		dB	
Spurious Rejection	80 dB	75 dB		
	3 W (Internal)			
Audio Output	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	on -57 (dBm		
	tion: measured by TIA/EIA-6	503C		
Output Power	I – 25 W	I – 25 W	-	
	25 – 45 VV	25 – 40 W	I – 40 W	
Modulation Limiting	± 2.5 kHz @ 12.5 kHz, ± 5.0 kHz @ 25 kHz		z	
Conducted/Radiated Emission	nission -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		I I KOF3E, 16KOF3E		
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

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	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	
Low Pressure	500.3 / 11	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/AIC3	503.4 / I	
Solar Radiation	505.3 / I	505.4 / I	
Rain	506.3 / 1,11	506.4 / I, III	
Humidity	507.3 / II	-	
Salt Fog	509.3 / I	509.4 / I	
Dust	510.3 / 1	510.4 / 1	
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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