

VXD-R70

Digital Repeater

SPECIFICATION SHEET DMRTIER 2 STANDARD

Clear, Quality Communications

Easily convert from analogue to digital two-way radio communications with the VXD-R70 repeater, providing the essential voice 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.

Get 100% continuous duty at 45 Watt VHF and 40 Watt UHF for easy integration into most repeater sites.

Easy Digital Conversion: Operate in Analogue or Digital Mode

The VXD-R70 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. Any brand of analogue two-way radios can be supported by the VXD-R70 repeater in addition to using DMR portable or mobile radios.

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.

Continuous Performance with Power Supply Backup

Includes integrated power supply with connector for optional external DC battery backup.

Multicoloured LED Status Indicator

LED indicator enables easy monitoring of repeater status. Status indicators include: power, digital/analogue mode, repeater disabled, transmit analogue/digital mode by slot, and receive analogue/digital mode by slot.



VXD-R70



RFAR PANFI 482.6MM (W) X 132.6MM (H) X 296.5MM (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 I-year warranty – another great reason to choose Vertex Standard. Ask your Dealer for more details.



SPECIFICATION SHEET

www.vertex-standard-emea.com

Additional Features

- 16 Channel capacity
- EIA Rack mount size
- AMBE+2™ Digital vocoder
- 26-Pin accessory connector

VHF		UHF		
General Specification				
Frequency Range	136 – 174 MHz	403 – 470 MHz	450 – 512 MHz	
Number of Channels	I	6		
Power Supply Voltage	100 – 240 V AC (13.6 V DC)			
Channel Spacing	12.5 / 20	12.5 / 20 / 25 kHz		
	Standby: I A (I A DC typical)			
Current Consumption	TX Low Power: 3 A (7.5 A DC typical)			
	TX High Power: 4 A (12 A DC typical)			
Operating Temperature Rang	−30° C to +60° C (−22° F to +140° F)			
Frequency Stability	±0.5 ppm			
Duty Cycle	100%			
Dimension (H x W x D)	132.6 x 482.6 x 296.5 mm (5.22 x 19 x 11.67 inches)			
Weight (Approx.)	14 kg (31 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 @ I	.5 kHz, 80 dB @ 25 kHz 65 dB @ 12.5 kHz, 75 dB @ 25 kH			
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 Distortion	3% (typical)			
Hum and Noise	-40 dB @ 12.5 kHz			
	-45 dB @ 25 kHz			
Conducted Spurious Emission	n -57	dBm		
Transmitter Specificati	on: measured by EN 300 08	36		
Output Power	I – 25 W	I – 25 W	_	
	25 – 45 W	25 – 40 W	I – 40 W	
Modulation Limiting	± 2.5 kHz @ 12.5 kHz	± 5.0 kHz	@ 25 kHz	
Conducted/Radiated Emissio	n -36 dBm < 1 GHz	-30 dBm > I 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 K 0F3E,	E, 16K0F3E		
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD			
	12.5 kHz Data & Voice: 7K60FXE			
Digital Protocol	ETSITS 102 361-1, -2, -3			