

VX-417/427 Series

Under Easy-Licenses Band

SPECIFICATION SHEET

Dependable and Discreet Communications

The Vertex Standard VX-417/427 Series provides a host of built-in features in compact convenience for the quality communications you need.

Large Channel Capacity for Group Communications

For large group communications, Or get 32-channel capacity, with the VX-417/427 radios for quick and convenient channel access.

Maximise Battery Life

Includes RX/TX (receive and transmit) battery saver capability. During receive, the radio will go into saver mode while periodically checking for channel activity. During transmit, the VX-417/427 Series will automatically reduce power when the incoming signal is very strong.

Exclusive Auto-Range Transpond System – ARTS™

Only Vertex Standard radios are designed to inform you when you and another ARTS™-equipped station are within communication range. If out of range for more than 2 minutes, your radio senses no signal has been received and beeps to alert you. The base station can then alert the field unit to move back in range. A great solution to keep your workers co-ordinated.



The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Count on Vertex Standard for radios that are built to last and designed to provide more features for a better return on your investment. Ask your Dealer for more details.

Additional Features

- Six programmable key (VX427)
- Two programmable key (VX417)
- 8-Character alphanumeric display (VX427)
- DTMF ANI
- 2-Ton Encode + Dual 2-Tone Decode
- CTCSS / DCS Encode & Decode
- 5-Tone signaling
- Compander
- BCLO, BTLO and TOT Functions
- Programmable alert tone

VX-417/427 Series Specifications

General Specification		VX 417 / 427
Frequency Range		(350-351MHz)
Number of Channels		32 ch
Power Supply Voltage		7.5V DC \pm 20 %
Channel Spacing		12.5kHz
PLL Steps		2.5 / 6.25 kHz
Battery Life (5-5-90 duty)		1800 mAh , Ni -MH Battery model FNB-V 94
IP Rating		IP 54
Operating Temperature Range		-30° C to +60° C
Frequency Stability		\pm 2.5 ppm
Dimension (H x W x D)		(108.5 x 58 x 30 mm)
Weight (Approx.)		(300 g , ANT, Belt Clip)
Receiver Specification: measured by TIA/EIA-603		
Circuit Type		Double-conversion Super-heterodyne
IFs		50.85MHz & 450 kHz
Sensitivity 12 dB SINAD		0.25 μ V
Squelch Sensitivity		< 0.20 μ V
Adjacent Channel Selectivity		> 70 dB (25/20 kHz) / > 65 dB (12.5 kHz)
Intermodulation		> 70 dB
Spurious and Image Rejection		> 70 dB
Audio Output		500mW@ 4 Ohms 5% THD
Transmitter Specification: measured by TIA/EIA-603		
Output Power		4 / 1 W
Modulation		11K0F3E
Conducted Spurious Emissions		70 dB below carrier
FM Hum & Noise		> 45 dB
Audio Distortion		< 3% @1kHz
Microphone Type		2-kOhms condenser

Applicable MIL-STD

Standard	MIL 810D Methods/ Procedures	MIL 810E Methods/ Procedures	MIL 810F Methods/ Procedures
Low Pressure	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.2/Procedure I	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I, II
Rain	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.2/Procedure II, III	507.3/Procedure II, III	507.4/Procedure I
Salt Fog	509.2/Procedure	509.3/Procedure I	509.4 /Procedure I
Dust	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I
Vibration	514.3/Procedure Cat. 10	514.4/Procedure Cat. 10	514.5/Procedure Cat. 10
Shock	516.3/Procedure I, V	516.4/Procedure I, IV	516.5/Procedure I, IV

Specifications are subject to change without notice or obligation.
 VERTEX STANDARD is registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. © Vertex Standard Co. Ltd. 2010