EVX-530 SERIES

DIGITAL PORTABLE RADIOS

DMR Tier 2 Standard



eVerge

Evolve to Better Communication and Value

You can afford to enhance your communications with the digital performance of eVerge[™] two-way radios. eVerge[™] radios are compact and precision-engineered to deliver value without sacrificing quality — giving you more capabilities and the flexibility you need to communicate at your best.

Conversion Made Easy with Analog Integration

eVerge[™] radios operate in both analog and digital modes and can be used with any existing analog two-way radios.

Do Digital Right: Stay Compatible and Maximize Efficiency

eVerge[™] digital radios operate using the TDMA protocol for spectrum and power efficiency and lower total equipment cost compared to FDMA.

Better Radio Call Quality

Digital eliminates noise and static from voice transmit to only deliver the intended voice message crisply and clearly. eVerge[™] digital radios feature the AMBE+2[™] vocoder for enhanced voice quality.

Better Battery Life

Using eVerge[™] radios in digital mode can operate up to 40% longer than typical analog mode as a result of the TDMA protocol and reduces overall battery consumption per call.

Better Message Control and Privacy

Control who you call and who gets your message in digital mode. Digital radios each have a unique ID enabling users to select who they need to call or send a text message without including others.

Better Coverage and Connection Monitoring with ARTS II™

Get ultra-clear audio right up to the edge of the transmit range. And, with Vertex Standard's exclusive Auto-Range Transpond System (ARTS II), you will always know when you are in or out of range with another ARTS IIequipped radio.

Submersible and Weatherproof

Meets international standard IP 57 for dust and water protection where fresh water does not harm the radio when submersed to 3 feet for up to 30 minutes.

Intrinsically Safe Option

Available as a future release: will meet SGS intrinsically safe requirements for use in hazardous situations.

Option Board Expandable for Additional Applications

The EVX-530 series is designed for future feature expansion and supporting third-party application development such as location tracking with GPS, rolling code encryption, etc.



EVX-539

4.1" H x 2.3" W x 1.34" D





Option Board Expandability





EVX-530 SERIES

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SPECIFICATION SHEET

Additional Features

- 9 Programmable keys (EVX-539)
- 7 Programmable keys (EVX-534)
- 3 programmable keys (EVX-531)
- 8-Character alpha numeric display (EVX-534/539)
- Programmable tri-color LED custom call alert
- ▼ Voice compander
- Internal VOX
- Whisper mode
- RSSI Indicator (EVX-534/539)
- Voice inversion encryption (EVX-534/539)
- CTCSS/DCS encode/decode
- MDC-1200[®] encode/decode
- 2-Tone encode/decode
- 5-Tone encode/decode (EVX-534/539)
- Lone worker alert
- Emergency alert
- DTMF Telephone Interconnect/ANI
- DTMF Paging (EVX-534/539)
- Remote stun/kill/revive (EVX-534/539)
- Key lock
- Voice channel announce
- Priority scan
- Dual Watch scan
- Follow-me scan
- Nuisance channel delete
- Radio-to-radio cloning (EVX-534/539)

Digital Mode Features

- Enhanced privacy (EVX-534/539)
- Text messaging (EVX-534/539)
- All call, Group call, Individual call
- Escalert
- Remote monitor
- PTT ID encode (EVX-531)
- PTT ID encode/decode (EVX-534/539)
- Mixed mode scan
- One touch access (EVX-534/539)
- 128 Record contact list (EVX-534/539)

Accessories

- MH-37A4B: Earpiece microphone (RX/TX)
- MH-81A4B: Over-the-head light duty VOX headset
- MH-360S: Compact speaker microphone
- MH-450S: Speaker microphone
- MH-66A4B: IP 57 Submersible microphone
- FNB-V133LI-UNI: 1380 mAh Li-Ion battery
- FNB-V134LI-UNI: 2300 mAh Li-Ion battery
- VAC-UNI: Single-unit charger
- CLIP-20: Belt clip
- Leather cases available

EVX-530 Series Specifications

General Specifications					
Frequency Range	VHF: 136 - 174 MHz	UHF: 403 – 470 MHz 450 – 512 MHz			
Number of Obernale and Orever					
Number of Channels and Groups	32/2(EVX-531);512/32(EVX-534/539)				
Power Supply Voltage	7.5 V nominal				
Channel Spacing	25*/20*/12.5 kHz				
Battery Life					
(5-5-90 duty w/battery saver) FNB-V134LI-UNI: 2300 mAh Li-Ion	VHF:				
FNB-V134LI-UNI: 2300 MAN LI-ION FNB-V133LI-UNI: 1380 mAh Li-Ion	15.8 hrs (digital) / 12.0 hrs (analog) 9.7 hrs (digital) / 7.4 hrs. (analog)	15.2 hrs (digital) / 11.5 hrs. (analog) 9.1 hrs (digital) / 7.0 hrs. (analog)			
IP Rating	IP 57				
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)				
Dimension (H x W x D)	4.1 x 2.3 x 1.34 inches (106.7 x 58.5 x 34 mm) (w/FNB-V133LI-UNI				
Weight (Approx.)	9.9 oz (280 g) w/FNB-V133LI-UNI, 11.5 oz (325 g) w/FNB-V134LI-UNI				
Receiver Specifications		measured by TIA/EIA 603C			
Sensitivity:	Analog 12 db SINAD: 0.25 uV				
	Digital 1% BER: 0.28 uV				
Adjacent Channel Selectivity	TIA603: 70/60 dB				
	TIA603C: 70/45 dB				
Intermodulation	65 dB				
Spurious Rejection	70 dB				
Audio Output	500 mW @ 4 0hms (INT)				
	350 mW @ 4 0hms (EXT)				
Hum and Noise	40 dB				
Conducted Spurious Emission	-57 dBm				
Transmitter Specifications		measured by TIA/EIA 603C			
Output Power	5.0/2.5/1.0/0.25W				
Modulation Limiting	16KOF3E/11KOF3E				
Conducted Spurious Emission	70 dB below carrier				
Hum and Noise	40 dB				
Audio Distortion	<5% (3% typical)				
Frequency Stability	±1.5 ppm				
4FSK Digital Modulation	7K60F1D / 7K60F1E				
Digital Protocol	ETSI TS 102 361-1, -2, -3				

Applicable MIL-STD

	Methods/Procedures				
Standard	MIL 810C	MIL 810D	MIL 810E	MIL 810F	MIL 810G
Low Pressure	500.1/I	500.2/1,11	500.3/1,11	500.4/I, II	500.5/I, II
High Temperature	501.1/I,II	501.2/I, II	501.3/I, II	501.4/I, II	501.5/I, II
Low Temperature	502.1/I	502.2/I, II	502.3/I, II	502.4/I, II	502.5/I, II
Temperature Shock	503.1/I	503.2/I	503.3/I	503.4/I	-
Solar Radiation	505.1/I,II	505.2/II Cat. Al	505.3/II Cat. Al	505.4/I, II Cat. Al	-
Rain	506.1/I, II	506.2/I, II	506.3/I, II	506.4/I, III	506.5/I, II
Humidity	507.1/I,II	507.2/II, III	507.3/II, III	507.4/111	507.5/I, III
Salt Fog	509.1/I	509.2/I	509.3/I	509.4 / I	509.5/I
Dust	510.1/I	510.2/I	510.3/I	510.4/I, III	510.5/I
Vibration	514.2/VIII, X	514.3/Cat. 10	514.4/Cat. 10	514.5/ Cat. 20, 24	514.6/ Cat. 20, 24
Shock	516.2/I, III, V	516.3/I, IV	516.4/I, IV	516.5/I, IV	516.6/I, IV

Specifications are subject to change without notice or obligation. *25 kHz will not be available on new equipment in the U.S.A. after 1/1/2013. VERTEX STANDARD is a trademark of Vertex Standard LMR, Inc. All other trademarks are the property of their respective owners. © Vertex Standard LMR, Inc. 2013

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