EVX-530 SERIES

Vertex Standard

eVerge*

DIGITAL PORTABLE RADIOS

DMR Tier 2 Standard / TDMA Protocol

SPECIFICATION SHEET - NORTH AMERICA

Evolve to Better Communication and Value

You can afford to enhance your communications with the digital performance of eVerge $^{\mathbb{M}}$ two-way radios. eVerge $^{\mathbb{M}}$ 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

 $eVerge^{\mathbb{M}}$ radios operate in both analog and digital modes and can be used with any existing analog two-way radios.

Direct Mode

Direct Mode enables you to have two communication paths on a single frequency effectively doubling your call capacity without the need of a repeater.

Transmit Interrupt

When seconds matter, transmit interrupt allows an operator to halt or "interrupt" any current transmission, in favor of a priority message. Transmit Interrupt functionality ensures your critical messages will connect.

Enhanced Display

The EVX series boasts a robust dot matrix display, allowing up to sixteen characters per screen and as many as forty overall. In addition, the display is functional for use in six different languages, including English, Spanish, Chinese, Russian, Portuguese and Turkish.

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 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 II-equipped 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 for Hazardous Locations

Intrinsically safe models are SGS certified to the requirements of ANSI/UL913 5th Edition for use in Class I, II, III, Division 1; Groups C,D,E,F,G; Temp T3C hazardous locations.

Site Roaming

Move between multiple sites seamlessly by using the Site Roaming functionality your EVX-530 series radio. Manually or automatically initiate Site Roaming to identify the signal of the closest site with the strongest signal strength. The EVX-530 portable will dynamically change its pre-programmed home site to the site with the strongest signal in range. Great for operations with multiple locations or multiple floor buildings.













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Additional Features

- 9 Programmable keys (EVX-539) 7 Programmable keys (EVX-534)
- 3 programmable keys [EVX-531] Full Dot Matrix Multi-lingual display [EVX-534/539]
- ARTS™ & ARTS II™
- Programmable tri-color LED custom call alert
- Internal VOX
- RSSI Indicator (EVX-534/539)
- Voice inversion encryption (EVX-534/539)
- Lone worker alert
- Emergency alert
- Key lock
- Voice channel announce
- DTMF Telephone Interconnect/ANI
- Multiple scan options (Priority, Dual Watch, Follow-me)
- Nuisance channel delete
- Radio-to-radio cloning
- Option board expandable (EVX-534/539)

Analog Mode Features

- Voice compander
- Whisper mode
- CTCSS/DCS encode/decode MDC-1200® encode/decode
- 2-Tone encode/decode
- 5-Tone encode/decode
- DTMF Paging (EVX-539)
- Remote stun/kill/revive (5-tone)

Digital Mode Features

- All Call/Group Call/Individual Call
- Text Messaging
- Direct/Dual Capacity Mode
- Transmit Interrupt
- PTT ID encode (EVX-531) encode/decode (EVX-534/539)
- Basic/Enhanced Privacy 256b AES encryption (EVX-534/539)
- Mixed Mode Scan
- Site Roaming
- DTMF encode
- Escalert
- Remote Monitor
- 128 Record Contact List

Accessories

Batteries

- FNB-V133LI-UNI 1380MAH Li-Ion
- FNB-V134LI-UNI 2300MAH Li-Ion
- FNB-V134LIIS-UNI: 2300 mAh Li-Ion Battery [IS]†
- FBA-41 Alkaline Battery case

- VAC-UNI Single Unit Charger (multiple plugs for both regions) - CD-58 Charger Base, PA-55 AC Adaptor
- VAC-6058 MUC Charger (multiple plugs for both regions)
- ▼ VCM-5 Vehicular Charger Mounting Adaptor (UNI Charger/Batteries)

Speaker Microphones

- MH-360S Compact Speaker Microphone
- MH-450S Speaker Microphone with 3.5mm Audio Jack
- MH-66A4B IP57 Submersible Speaker Microphone

Headsets/Earpieces

- MH-37A4B-1 Earpiece Microphone
- VH-150A VOX capable lightweight headset, Behind-the-Head
- VH-150B VOX capable lightweight headset, Over-the-Head
- MH-100 Rx only Earpiece, 3.5mm for use with MH-450S
- MH-101A4B Single Wire Surveillance Kit
- MH-102A4B Two-Wire Surveillance Kit

Programming Equipment

- FIF-12 USB interface for PC programming
- CT-106 FIF-12 to Radio Cable
- CT-153 Clone Cable
- ▼ CT-27A Radio to Radio Cloning Cable

EVX-530 Series Specifications

General Specifications					
Frequency Range	VHF: 136 - 174 MHz	UHF: 403 - 470 MHz / 450 - 512 MHz			
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	20 /20 /22.0 KHZ				
[5-5-90 duty w/battery saver]	VHF:	UHF:			
FNB-V134LI-UNI: 2300 mAh Li-lon	17.0 hrs (digital) / 14.0 hrs (analog) 16.1 hrs (digital) / 13.6 hrs (ar				
FNB-V134LIIS-UNI: 2300 mAh Li-lon	17.0 hrs (digital) / 14.0 hrs (analog) 16.1 hrs (digital) / 13.6 hrs (analog)				
FNB-V133LI-UNI: 1380 mAh Li-lon	9.8 hrs (digital) / 8.1 hrs (analog)	9.3 hrs (digital) / 8.0 hrs (analog)			
IP Rating	IP 57				
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)				
Storage Temperature Range	-40° F to +185° F (-40° C to +85° C)				
Dimension (H x W x D)	4.4 x 2.3 x 1.5 inches [112.5 x 57.5 x 38 mm] w/FNB-V134LI-UNI [and IS] 4.4 x 2.3 x 1.2 inches [112.5 x 57.5 x 30.5 mm] [w/FNB-V133LI-UNI]				
Mainht Annuay w/Antonna Balt Clin	9.4 oz (276 g); 10.9 oz (310 g) w/FNB-V133LI-UNI				
Weight Approx. w/Antenna, Belt Clip EVX-531; EVX-534/539	11.1 oz (315 g); 12.7 oz (360 g) w/FNB-V134LI-UNI				
EVX-331, EVX-354/339	11.3 oz (320 g); 12.9 oz (365 g) w/FNB-V134LIIS-UNI				
Receiver Specifications		measured by TIA/EIA 603			
Sensitivity	Analog 12 dB SINAD: 0.25 uV				
	Digital 1% BER: 0.28 uV				
Adjacent Channel Selectivity	TIA603: 70/60 dB				
Aujacent channel Selectivity	TIA603B: 70/45 dB				
Intermodulation	65/60 dB				
Spurious Rejection	70 dB				
Audio Output	EVX-531: 500 mW @ 4 0hms (INT) / 350 mW @ 4 0hms (EXT) EVX-534/539: 700 mW @ 16 0hms (INT) / 350 mW @ 4 0hms (EXT)				
Hum and Noise	40 dB -57 dBm				
Conducted Spurious Emission	-57				
Transmitter Specifications	E 0/2 E/3	measured by TIA/EIA 603			
Output Power	5.0/2.5/1.0/0.25W 16K0F3E/14K0F3E/11K0F3E				
Emission Designator (Analog)		· · · · ·			
Modulation Limiting	Analog: +/- 5 kHz [25 kHz]; +/- 2.5 kHz [12.5 kHz] Digital (FID): 5%				
Modulation Limiting	Symbol Deviation: 1745 Hz - 2138 Hz				
Conducted Spurious Emission	70 dB below carrier				
Hum and Noise	45/40 dB				
Audio Distortion	3%				
Frequency Stability	±1.5 ppm				
4FSK Digital Modulation	Data: 7K60F1D / 7K60FXD Voice: 7K60F1E / 7K60FXE				
Digital Protocol	ETSITS 102 361-1, -2, -3				
Digital Fibrocol	L13113 102	JUI I, L, -J			

Applicable MIL-STD

	Methods/Procedures					
Standard	MIL810C	MIL 810D	MIL 810E	MIL 810F	MIL 810G	
Low Pressure	500.1/I	500.2/I,II	500.3/I,II	500.4/1, 11	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. AI	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/III	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. †Intrinsically Safe system approved. Complete list of IS accessories in Owners Manual.*25 kHz is not available on new equipment in the U.S.A. effective 1/1/2013. VERTEX STANDARD is a trademark of Vertex Standard LMR, Inc. 2015