EVX-530 SERIES

Vertex Standard

eVerge

DIGITAL PORTABLE RADIOS

DMR Tier 2 Standard

SPECIFICATION SHEET - APAC

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.

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 $30 \, \text{minutes}$.

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 preprogrammed home site to the site with the strongest signal in range. Great for operations with multiple locations or multiple floor buildings.



EVX-539 106.7 x 58.5 x 34 mm



Option Board Expandability





Additional Features

- 9 Programmable keys (EVX-539)
- 7 Programmable keys (EVX-534)
- ₹ 3 programmable keys (EVX-531)
- ¬ 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 Telephone Interconnect/ANI
- DTMF Paging (EVX-534/539)
- Remote stun/kill/revive

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

- MH-81A4B: Over-the-head light duty VOX headset
- MH-37A4B-1 Earpiece microphone
- 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-lon battery
- FNB-V134LIIS-UNI: 2300 mAh Li-lon battery [IS]†
- VAC-UNI: Single-unit charger
- VAC-6058: Multi-unit charger
- ▼ FBA-41: 6AA Battery case
- ▼ CLIP-20: Belt clip
- Leather cases available

EVX-530 Series Specifications

Frequency Range	VHF: 136 – 174 MHz	UHF: 403 - 470 MHz			
rrequency kange	VHF. 138 - 174 MHZ	450 – 520 MHz			
		350 - 390 MHz (EVX-531 only)			
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]	VHF:	UHF:			
FNB-v134LIIS-UNI: 2300mAh Li-lon	17.0 hrs (digital) / 14.0 hrs. (analog)	16.1 hrs (digital) / 13.6 hrs. (analog)			
FNB-V134LI-UNI: 2300 mAh Li-Ion	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)	112.5 x 57.5 x 38 mm [with battery]				
Weight (Approx.) with Antenna, Belt	315 g; 360 g w/FNB-V134LI-UNI				
Clip, EVX-531; EVX-534/539	276 g; 310 g w/	FNB-V133LI-UNI			
EVX-531; EVX-534/539		measured by TIA/EIA 603I			
Sensitivity:	Analog 12 db SINAD: 0.25 uV				
	Digital 1% BER: 0.28 uV				
Adjacent Channel Selectivity	TIA603: 70/60 dB				
Aujacent channel delectivity	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]				
Addio Odtput	EVX-534/539: 700 mW @ 16 0hms [INT] / 350 mW @ 4 0hms [EXT] EVX-531				
Hum and Noise	40 dB				
Conducted Spurious Emission	-57 dBm				
Transmitter Specifications		measured by TIA/EIA 603I			
Output Power	5.0/2.5/1.0/0.25W				
Emission Designator (Analog)	16K0F3E/14K0F3E/11K0F3E				
Modulation Limiting	16K0F3E/11K0F3E				
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				

Vertex Standard

Applicable MIL-STD

	Methods/Procedures						
Standard	MIL 810C	MIL 810D	MIL810E	MIL 810F	MIL 810G		
Low Pressure	500.1/I	500.2/1,11	500.3/1,11	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	502.5/1, 11		
Temperature Shock	503.1/I	503.2/1	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. AI	-		
Rain	506.1/I, II	506.2/I, II	506.3/I, II	506.4/1, 111	506.5/I, II		
Humidity	507.1/I,II	507.2/II, III	507.3/11, 111	507.4/111	507.5/I, III		
Salt Fog	509.1/I	509.2/1	509.3/I	509.4 / 1	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		