EVX-530 SERIES

DIGITAL PORTABLE RADIOS

DMR Tier 2 Standard

Vertex Standard

eVerge™

SPECIFICATION SHEET - APAC

www.vertexstandard.com/ap

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.

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 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 Search

Move between multiple sites seamlessly by using the Site Search functionality your EVX-530 series radio. Manually or automatically initiate Site Search 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.

DMR
DIGITAL MOBILE RADIO ASSOCIATION

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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 Search
- 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-Ion battery
- FNB-V134LIIS-UNI: 2300 mAh Li-Ion battery [IS]†
- FNB-V136-UNI: 1200 mAh Ni-MH
- 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

General Specifications		
	VHF	**UHF**
Frequency Range	136 – 174 MHz	403 – 470 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)**		
FNB-v134LIIS-UNI: 2300mAh Li-Ion	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-Ion	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 Clip, EVX-531; EVX-534/539	315 g; 360 g w/FNB-V134LI-UNI 276 g; 310 g w/FNB-V133LI-UNI	
EVX-531; EVX-534/539	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 TIA603B: 70/45 dB	
Intermodulation	65/60 dB	
Spurious Rejection	70 dB	
Audio Output	EVX-531: 500 mW @ 4 Ohms (INT) / 350 mW @ 4 Ohms (EXT) EVX-534/539: 700 mW @ 16 Ohms (INT) / 350 mW @ 4 Ohms (EXT) EVX-531	
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	
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	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	500.1/1	500.2/1,II	500.3/1,II	500.4/1, II	500.5/1, II
High Temperature	501.1/1,II	501.2/1, II	501.3/1, II	501.4/1, II	501.5/1, II
Low Temperature	502.1/1	502.2/1, II	502.3/1, II	502.4/1, II	502.5/1, II
Temperature Shock	503.1/1	503.2/1	503.3/1	503.4/1	-
Solar Radiation	505.1/1,II	505.2/II Cat. AI	505.3/II Cat. AI	505.4/1, II Cat. AI	-
Rain	506.1/1, II	506.2/1, II	506.3/1, II	506.4/1, III	506.5/1, II
Humidity	507.1/1,II	507.2/II, III	507.3/II, III	507.4/III	507.5/1, III
Salt Fog	509.1/1	509.2/1	509.3/1	509.4 / 1	509.5/1
Dust	510.1/1	510.2/1	510.3/1	510.4/1, III	510.5/1
Vibration	514.2/VIII, X	514.3/Cat. 10	514.4/Cat. 10	514.5/ Cat. 20, 24	514.6/ Cat. 20, 24
Shock	516.2/1, III, V	516.3/1, IV	516.4/1, IV	516.5/1, IV	516.6/1, IV