

# EVX530-EGY SERIES

## DIGITAL PORTABLE RADIOS

DMR Tier 2 Standard

  
Vertex Standard

eVerge™

SPECIFICATION SHEET - EGYPT

## 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 favour 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

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, Divisions 1; Groups C, D, E, F, G; Temp T3C hazardous locations.

### Site Search

Move between multiple sites seamlessly by using the Site Search functionality of your EVX530-EGY series radio. Manually or automatically initiate Site Search to identify the signal of the closest site with the strongest signal strength. The EVX530-EGY 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.



EVX531-EGY

EVX539-EGY

112.5 x 57.5 x 38 mm



**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION



## Additional Features

- ▶ 9 Programmable keys [EVX539-EGY]
- ▶ 3 programmable keys [EVX531-EGY]
- ▶ ARTS™ & ARTS II™
- ▶ Programmable tri-colour LED custom call alert
- ▶ Internal VOX
- ▶ RSSI Indicator [EVX539-EGY]
- ▶ 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

## 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 [EVX539-EGY]
- ▶ Remote stun/kill/revive

## Digital Mode Features

- ▶ All call, Group call, Individual call
- ▶ Text messaging
- ▶ Dual/Direct Capacity Mode
- ▶ Transmit Interrupt
- ▶ PTT ID encode [EVX531-EGY] encode/decode [EVX539-EGY]
- ▶ Mixed mode scan
- ▶ Site Search
- ▶ DTMF encode
- ▶ Escalart
- ▶ Remote monitor
- ▶ 128 Record contact list

## Accessories

- ▶ MH-81A4B: Over-the-head light duty VOX headset
- ▶ MH-37A4B-1 Ear piece Microphone
- ▶ MH-360S: Compact speaker microphone
- ▶ MH-450S: Speaker microphone
- ▶ MH-66A4B: IP57 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]+
- ▶ VAC-UNI: Single-unit charger
- ▶ VAC-6058: Multi-unit charger
- ▶ FBA-41:6AA Battery case
- ▶ CLIP-20: Belt clip
- ▶ Leather cases available

## EVX530-EGY Series Specifications

General Specifications	
Frequency Range	VHF: 136 - 174 MHz
Number of Channels and Groups	32 / 2 [EVX531-EGY]; 512/32 [EVX539-EGY]
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: 2300 mAh Li-Ion FNB-V134LI-UNI: 2300 mAh Li-Ion FNB-V133LI-UNI: 1380 mAh Li-Ion	VHF: 17.0 hrs [digital]/14.0 hrs [analog] 17.0 hrs [digital]/14.0 hrs [analog] 9.8 hrs [digital]/8.1hrs [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 38mm [with battery]
Weight [Approx.] with Antenna, Belt Clip EVX531-EGY; EVX539-EGY	315 g; 360 g w/FNB-V134LI-UNI 276 g; 310 g w/FNB-V133LI-UNI
EVX531-EGY; EVX539-EGY <span style="float: right;">measured by TIA/EIA 603C</span>	
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	EVX531-EGY: 500 mW @ 4 Ohms [INT] / 350 mW @ 4 Ohms [EXT] EVX539-EGY: 700 mW @ 16 Ohms [INT]/ 350 mW @ 4 Ohms [EXT] EVX-531 EGY
Hum and Noise	40 dB
Conducted Spurious Emission	-57 dBm
Transmitter Specifications <span style="float: right;">measured by TIA/EIA 603C</span>	
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

Standard	Methods/Procedures				
	MIL 810C	MIL 810D	MIL 810E	MIL 810F	MIL 810G
Low Pressure	500.1/I	500.2/I,II	500.3/I,II	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. A1	505.3/II Cat. A1	505.4/I, II Cat. A1	-
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

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