

EVX-261

DIGITAL PORTABLE RADIO

DMR Tier 2 Standard / TDMA Protocol


Vertex Standard

eVerge™

SPECIFICATION SHEET - NORTH AMERICA

Evolve to Better Communication and Value

The Migration to Digital just got easier and more affordable. The EVX-261 is the perfect entry radio to enable you 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.

Superior Audio Output

Excellent Audio performance allows for better message clarity so you can be heard loud and clear in all situations.

Expanded Interoperability

The EVX-261 boasts abundant signaling options such as MDC1200®, DTMF, 2-tone and 5-tone capabilities, as well as voice inversion encryption, providing seamless integration into a mixed fleet.

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.

Safety Not Sacrificed

Emergency alert can be programmed to instantly notify help with a press of a button. Lone Worker is a built-in timer that requires the user to reset at a predetermined interval. If not reset, the radio automatically switches to Emergency mode to alert help. An ideal solution for supervisors to monitor the safety status of radio users working alone. VOX capable with accessory.

Universal Battery System – One Size Fits All

The Universal Battery System for Vertex Standard portable radios takes energy interoperability to a new level by utilizing a single charger base to support multiple radio series when used with designated UNI batteries. Eliminate equipment clutter and confusion by consolidating down to one battery and charging platform and increase your productivity.

EVX-261 Key Features

- ▶ Non-display radio
- ▶ 16 channels
- ▶ 2 custom-programmable keys
- ▶ Superior audio quality



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Additional Features

- ▶ 700 mW Internal Speaker
- ▶ Emergency Alert
- ▶ Lone Worker Alert
- ▶ Multiple Scan Options
- ▶ ARTS™
- ▶ Internal VOX (when used with VOX accessory)
- ▶ 3 Year Warranty

Analog Features

- ▶ MDC1200* ANI Encode
- ▶ 2-Tone Encode/Decode
- ▶ 5-Tone Encode/Decode
- ▶ CTCSS/DCS Encode and Decode
- ▶ Remote Stun/Kill/Revive [5-Tone]

Digital Features

- ▶ All Call/Group Call/Individual Call
- ▶ Transmit Interrupt [decode only]
- ▶ Dual Capacity Direct Mode
- ▶ Basic Privacy

Accessories

Batteries

- ▶ FNB-V133LI-UNI: 1380 mAh Li-Ion
- ▶ FNB-V134LI-UNI: 2300 mAh Li-Ion

Chargers

- ▶ 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]

Antennas

- ▶ ATU-6A 400-430 MHz UHF Antenna 6.5"
- ▶ ATU-6B 420-450 MHz UHF Antenna 6.1"
- ▶ ATU-6C 440-470 MHz UHF Antenna 6.1"
- ▶ ATU-6D 450-485 MHz UHF Antenna 6"
- ▶ ATU-6DS 450-485 MHz UHF Antenna 3.5"
- ▶ ATU-6F 485-520 MHz UHF Antenna 5.35"
- ▶ ATV-8A 134-151 MHz VHF Antenna 6"
- ▶ ATV-8B 150-163 MHz VHF Antenna 6"
- ▶ ATV-8C 161-174 MHz VHF Antenna 6"
- ▶ ATV-6XL Untuned VHF Antenna 7"

Cases

- ▶ LCC-261 Leather Case, Belt Loop [FNB-V133LI]
- ▶ LCC-261H Leather Case, Belt Loop [FNB-V134LI]
- ▶ LCC-261S Leather Case, Swivel Belt Loop [FNB-V133LI]
- ▶ LCC-261SH Leather Case, Swivel Belt Loop [FNB-V134LI]

Clip

- ▶ CLIP-20 Belt Clip

Audio Accessories

Speaker Microphones

- ▶ MH-360S Compact Speaker Microphone with 3.5mm Audio Jack
- ▶ MH-450S Speaker Microphone with 3.5mm Audio Jack
- ▶ MH-66A4B Noise Cancelling Speaker Microphone with 3.5mm Audio Jack

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
- ▶ MH-101A4B Single Wire Surveillance Kit
- ▶ MH-102A4B 2-Wire Surveillance Kit
- ▶ MH-103A4B 3-Wire Surveillance kit
- ▶ MH-201A4B Heavy Duty Headset

Programming Equipment

- ▶ FIF-12 USB interface for PC programming
- ▶ CT-106 FIF-12 to Radio Cable
- ▶ CT-27A Radio to Radio Cloning Cable
- ▶ CN-3 SMA to BNC Adaptor
- ▶ CE156 Clone Editor Software

Specifications are preliminary and subject to change without notice or obligation.

†G6: FCC and IC approved. G7, D0: FCC and IC approval pending.

*25 kHz not available for U.S.A. Customers.

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EVX-261 Specifications

General Specifications		
	VHF	UHF
Frequency Range	D0: 136-174 MHz	G6: 403-470 MHz† G7: 450-512 MHz
Dimensions (H x W x D)	4.3 x 2.3 x 1.3 in (109.2 x 58.4 x 32.3 mm) with FNB-V133LI-UNI	
Weight Approx.	9.9 oz (281 g) (w/FNB-V133LI-UNI, Antenna, Belt Clip) 11.6 oz (330 g) (w/FNB-V134LI-UNI, Antenna, Belt Clip)	
Display	No	
Power Output	5 / 1 W	
Channel Spacing	25* / 12.5* kHz	
Audio Output	700 mW @ 16 Ohms [Internal] / 500 mW @ 4 Ohms [External]	
SP Size [Ø]	36	
Number of Channels	16	
Programmable Buttons	2	
PC Programming	CE156	
Radio to Radio Cloning	Yes	
Battery Life (5-5-90 duty with battery saver)	FNB-V133LI-UNI: 9.7 h [D] / 7.4 h [A] FNB-V134LI-UNI: 15.8 h [D] / 12.0 h [A]	FNB-V133LI-UNI: 9.1 h [D] / 7.0 h [A] FNB-V134LI-UNI: 15.2 h [D] / 11.5 h [A]
IP Rating	55	
Power Supply Voltage	7.4 V DC±10 %	
Operating Temperature Range	-22° F to +140° F [-30° C to +60° C]	
Frequency Stability	±1.5 ppm	
RF Input-Output Impedance	50 Ohms	
Receiver Specifications measured by TIA/EIA 603		
Circuit Type	Direct Conversion	
Sensitivity	Analog 12 dB SINAD: 0.25 uV / Digital 1% BER: 0.28 uV	
Adjacent Channel Selectivity	TIA603: 70 / 60 dB [25 kHz / 12.5 kHz], TIA603D: 70 / 45 dB [25 kHz / 12.5 kHz]	
Channel Spacing	25 / 12.5 kHz	
Intermodulation	70 dB	
Spurious Image Rejection	70 dB	
Hum and Noise	45 / 40 dB [25 kHz / 12.5 kHz]	
Audio Output [5% THD]	700 mW @ 16 Ohms [Internal] / 500 mW @ 4 Ohms [External]	
Audio Distortion	< 5%	
Conducted Spurious Emission	-57 dBm	
Transmitter Specifications measured by TIA/EIA 603		
Output Power	5 / 1 W	
Modulation Limiting	±5.0 kHz [25 kHz] / ±2.5 kHz [12.5 kHz]	
Conducted Spurious Emission	-36 dB [≤ 1 GHz], -30 dB [> 1 GHz]	
FM Hum and Noise	45 / 40 dB [25 kHz / 12.5 kHz]	
Audio Distortion [@1 kHz]	< 5%	
Analog FM Modulation	16K0F3E [25 kHz] / 11K0F3E [12.5 kHz]	
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD / 12.5 kHz Voice: 7K60F1E and 7K60FXE 12.5 kHz Data and Voice: 7K60F1W	
Digital Vocoder Type	AMBE +2™	
Digital Protocol	ETSI TS102 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 / 2	500.3 / 2	500.4 / I,2	500.5 / I,2
High Temperature	501.1 / I,2	501.2 / IA, 2/A1	501.3 / I/A1, 2/A1	501.4 / I/HOT, 2/HOT	501.5 / I/A1, 2/A2
Low Temperature	502.1 / I	502.2 / I/Cat 3, 2/Cat 1	502.3 / I/Cat 3, 2/Cat 1	502.4 - I/Cat 3, 2/Cat 1	502.5 / I/Cat 3, 2/Cat 1, 3/Cat 1
Temperature Shock	503.1 / I	503.2 / I/A1 Cat	503.3 / I/A1 Cat 3	503.4 / I	503.5 / I/C
Solar Radiation	505.1 / 2	505.2 / I	505.3 / I	505.4 / I	505.5 / I/A1
Rain	506.1 / I, 2	506.2 / I,2	506.3 / I,2	506.4 / I, 3	506.5 - 1/3
Humidity	507.1 / 2	507.2 / 2	507.3 / 2	507.4	507.5 - 2/Agg
Salt Spray/Fog	509.1 / I	509.2 / I	509.3 / I	509.4	509.5
Blowing Dust	510.1 / I	510.2 / I	510.3 / I	510.4 / I	510.5 / I
Blowing Sand	-	510.2 / II	510.3 / 2	510.4 / 2	510.5 / 2
Vibration	514.2 / 8/F, W	514.3 / 1/Cat. 10, 2/Cat 3	514.4 / 1/Cat 10, 2/Cat 3	514.5 / 1/Cat. 24	514.6 / 1/Cat. 24
Shock	516.2 / I,2,3,5	516.3 / I,4,6	516.4 / I,4,6	516.5 / I,4,6	516.6 / I,4,6