

EVX-261

DIGITAL PORTABLE RADIO

DMR Tier 2 Standard / TDMA Protocol


Vertex Standard

eVerge™

SPECIFICATION SHEET - AUSTRALIA, NEW ZEALAND AND THE PACIFIC ISLANDS

Evolve to Better Communication and Value

The Migration to Digital just got easier and more affordable. The EVX-261 is the perfect entry-level DMR 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 promptly 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 utilising 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
- ▶ 700mW audio output



EVX-261


IP55




DMR
DIGITAL MOBILE RADIO ASSOCIATION

Additional Features

- ▶ 700 mW Internal Speaker
- ▶ Emergency Alert
- ▶ Lone Worker Alert
- ▶ Multiple Scan Options
- ▶ ARTS™
- ▶ Internal VOX (when used with VOX accessory)
- ▶ Radio-to-Radio Cloning

Analogue 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 [UNI]
- ▶ FNB-V134LI-UNI 2300 mAh Li-Ion [UNI]

Chargers

- ▶ CD-58 Single Unit Charger Base [UNI]
- ▶ PA-55H Power Supply for CD-58 [UNI]
- ▶ VAC-6058 6-Unit Multi Rapid Charger [UNI]
- ▶ VCM-5 In Vehicle Charger for CD-58 [UNI]

Antennas

- ▶ ATU-6A 400-430 MHz 166mm
- ▶ ATU-6B 420-450 MHz 160mm
- ▶ ATU-6C 440-470 MHz 166mm
- ▶ ATU-6D 450-490 MHz 153mm
- ▶ ATU-6DS 450-490 MHz [Stubby] 89mm
- ▶ ATU-6F 400-420 MHz
- ▶ ATV-8A 134-151MHz HELICOIL 15CM
- ▶ ATV-8B 150-163MHz HELICOIL 15CM
- ▶ ATV-8C 161-174MHz HELICOIL 15CM

Leather Cases

- ▶ LCC-261 Leather Case Belt Loop suits FNB-V133LI [UNI] No Display
- ▶ LCC-261H Leather Case Belt Loop suits FNB-V134LI [UNI] No Display
- ▶ LCC-261S Leather Case Swivel Belt Clip suits FNB-V133LI [UNI] No Display
- ▶ LCC-261SH Leather Case Swivel Belt Clip suits FNB-V134LI [UNI] No Display

Clip

- ▶ CLIP-20 Belt Clip

Audio Accessories

Speaker Microphones

- ▶ MH-100 3.5MM Earpiece for RSM Audio Jack [IP-54]
- ▶ MH-450S Small Speaker Microphone
- ▶ MH-66A4B Submersible Speaker Mic [IP-57]

Surveillance Microphones

- ▶ MH-101A4B 1-Wire Surveillance Kit [IP-54]
- ▶ MH-102A4B 2-Wire Surveillance Kit [IP-54]
- ▶ MH-103A4B 3-Wire Surveillance Kit [IP-54]

Headsets

- ▶ VH-150A Lightweight behind-the-head VOX headset [IS Rated]
- ▶ VH-150B Lightweight over-the-head VOX headset [IS Rated]
- ▶ MH-201A4B Heavy Duty Headset [IS Rated]

Programming Equipment

- ▶ FIF-12 USB interface for PC programming

EVX-261 Specifications

General Specifications		
	VHF	UHF
Frequency Range	00:136-174 MHz	G6:403-470MHz G7:450-520MHz
Dimensions (H x W x D)	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	
Channel Spacing	25 / 12.5 kHz	
Number of Channels	16	
Programmable Buttons	2	
Battery Life (5-5-90 duty with battery saver)	FNB-V133LI-UNI: 9.8 h (D) / 8.1 h (A) FNB-V134LI-UNI: 17.0 h (D) / 14.0 h (A)	FNB-V133LI-UNI: 9.3 h (D) / 8.0 h (A) FNB-V134LI-UNI: 16.1 h (D) / 13.6 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 <small>measured by TIA/EIA 603</small>		
Circuit Type	Direct Conversion	
Sensitivity	Analogue 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 <small>measured by TIA/EIA 603</small>		
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%	
Analogue 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 / IA1, 2/A1	501.4 / I/HOT, 2/HOT	501.5 / IA1, 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 / 1/Cat 3, 2/Cat 1, 3/Cat 1
Temperature Shock	503.1 / I	503.2 / IA1 Cat	503.3 / IA1 Cat 3	503.4 / I	503.5 / 1/C
Solar Radiation	505.1 / 2	505.2 / I	505.3 / I	505.4 / I	505.5 / IA1
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 / 2	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

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