



**L3HARRIS®**  
FAST. FORWARD.

## **XL EXTREME™ 400P**

Extreme durability. Extreme connectivity.

You don't flinch in the face of danger. Neither should your radio. L3Harris' XL Extreme 400P is built to the industry's most rigorous standards to keep everyone connected, even in the most extreme conditions.

This radio's rock-solid construction is engineered to withstand anything the environment can throw at it. The XL-400P's hardware is designed to the toughest industry standards, the radio features extreme thermal materials, reinforced seal design and unique thermal-rated displays and speakers. The heavy-duty, glove-friendly keypad, knobs and large emergency button with L3Harris' unique visual zone indication, ambient temperature and optional in-building location capabilities keep your team in sync when the heat is on. Just like the rest of our XL radios, the XL Extreme 400P is:

### **RELENTLESSLY RELIABLE**

XL Radios run on systems that double-down on redundancy, champion open networks and connect seamlessly with P25-compliant organizations.

### **POINT-TO-POINT SECURE**

Our AES secure configurations are ironclad, keeping your systems safe from threats.

### **BACKED WITH ALL-IN, 24/7 SUPPORT**

Our service packages get your radios up and running and keep them running with preventative maintenance and automatic software upgrades.

### **Built to meet industry standards for the most extreme conditions**

- > Hardware designed to withstand extreme temperatures and environments
- > Intuitive, comfortable and easy to use
- > Large glove-friendly keypad, buttons and knobs
- > Dual SIM innovation keeps users connected across multiple carriers and private networks
- > Ambient temperature sensor
- > Loud and clear audio with industry-leading noise cancellation and echo reduction
- > Visual zone indication provides quick visual confirmation that all users are on the same group or channel
- > Advanced connectivity with secure voice and data encryption
- > Includes Wi-Fi® and Bluetooth® integration

## SPECIFICATIONS FOR: XL EXTREME 400 PORTABLE FULL-SPECTRUM MULTIBAND RADIO

GENERAL		
<b>Radio Models:</b> Extreme Keypad	Full heat-resistant DTMF keypad, integrated navigation cluster and soft keys	
<b>Dimensions w/Battery (H x W x D)</b>	6.6 x 2.5 x 1.7 in (168.0 x 64.0 x 43.7 mm)	
<b>Weight</b>	14.7 oz (418 g)	
<b>Housing Colors</b>	Green and Black	
<b>Interfaces:</b> Front Display Top Display Keypad Buttons	320 x 178 pixels, 1.8 in transfective LCD, 16-bit color with backlight 128 x 64 pixels, 1.1 in multicolor backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key SIDE: Large PTT button, 2 programmable side buttons. TOP: Rotary volume control with on/off switch, 2-position rotary concentric switch, 16 position top-mounted rotary switch, 4-position rotary concentric switch, 1 programmable top button, 1 large int'l orange emergency button	
<b>Tx/Rx Indicator</b>	2-position concentric switch, 4-position toggle switch, 2 programmable side buttons, programmable top button, multicolored LEDs 1 Multicolored TX/RX indicator, 1 Bluetooth indicator	
<b>Channel/Talkgroup Capacity</b>	1,250 total conventional channels and 13,824 total talkgroups	
<b>Radio programming</b>	Firmware, personalities and feature set over Wi-Fi or LTE	
<b>Transceiver</b>	<b>Supported Bands</b> VHF, UHF and 700/800 MHz and LTE (optional)	<b>Channel Capacity</b> 12,500 (1,250 per mission plan)
<b>Environmental:</b> Relative Humidity Vibration Drop Shock Immersion Dust Resistance Water Resistance	5% @ 140°F (60°C), 95% @ 122°F (50°C) TIA-603-D (PAR 2.3.4 and 3.3.4) and MIL-STD-810G, Test Method 514.6 3.0 m drop to concrete (exceeds TIA-603-D) 2 m for 4 h in accordance with (MIL-STD-810)G, 5 m for 4 h in accordance with (IP68) IP6X IPX8 (5m, 4 hours)	
<b>Heat Rating</b>	NIST Class I, II, III, IV compliant 100C (212° F) 25 minutes 160C (320°F), 15 minutes	260C (500°F), 5 minutes 1700°F (926°C). <1 minute
<b>Operating Temperature<sup>1</sup></b>	-22° to 140°F (-30° to 60°C)	
<b>Storage Temperature<sup>2</sup></b>	-40° to 176°F (-40° to 80°C)	
<b>Altitude</b>	<b>Operational</b> 15,000 ft (4,572 m)	<b>In Transit</b> 40,000 ft (12,192 m)
<b>Electrical Input Voltage</b>	7.5 VDC (nominal)	
<b>GPS/GNSS Specifications:</b> Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input	P25 standard Tier 2 and L3Harris In-Band GPS 52 -166 (GPS), -163 (GLONASS) -146 (GPS) <35 seconds <1 second	
<b>Safety:</b> Hazardous Location Options RoHS Compliant	Approved for use in the U.S. and Canada in Class I, Division 2 Groups A, B, C and D hazardous locations	

<sup>1</sup> Extremely low temperatures adversely affect battery life

<sup>2</sup> Store batteries at 77°F ±41°F (25°C ± 5°C)

LMR TRANSMITTER			
Frequency Bands	VHF*	UHF*	700/800 MHz
<b>Frequency Ranges (MHz)</b>	136-174	378-522	763-776, 793-806, 806-825, 851-870
<b>Rated RF Power/Talkaround (W)</b>	0.5-6	0.5-5	0.5-3
<b>Frequency Stability -22 to 140°F (-30 to +60°C)</b>	±1.0 ppm	±1.0 ppm	±1.0 ppm
<b>Modulation Limiting (kHz)</b>	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)
<b>Audio Response (dB)</b>	+1/-3	+1/-3	+1/-3
<b>Spurious and Harmonics (dBc)</b>	-80 (FCC Part 90)	-80 (FCC Part 90)	-80 (FCC Part 90)
<b>FM Hum and Noise Companion Receiver (dB):</b> @ 25 kHz @ 12.5 kHz	-70 -47	-60 -47	-55 -45
<b>Audio Distortion (%)</b>	<1.25	<1.25	<1.25
<b>Project 25 Modulation Fidelity (%)</b>	1.0	1.0	1.0
<b>Project 25 Adjacent Channel Power (dBc)</b>	>71	>71	>71

\*Full-spectrum multiband VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

## SPECIFICATIONS FOR: XL EXTREME 400 PORTABLE FULL-SPECTRUM MULTIBAND RADIO

REGULATORY DATA							
Frequency Range	RF Output	Frequency Stability	FCC Type Acceptance No.	Applicable FCC Rules	Industry Canada Certification No.	Applicable Industry Canada Rules	NTIA Cert. No.
136-174 MHz	6 W	+/- 1.0 PPM	OWDTR-0164-E	22, 74, 80, 90	3636B-0164	RSS-119	SPS-217 49/1
378-522 MHz	5 W	+/- 1.0 PPM	OWDTR-0164-E	22, 74, 80, 91	3636B-0165	RSS-119	SPS-217 49/1
768-776 MHz	3 W	+/- 1.0 PPM	OWDTR-0164-E	90	3636B-0166	RSS-119	NA
798-806 MHz	3 W	+/- 1.0 PPM	OWDTR-0164-E	90	3636B-0167	RSS-119	NA
806-816 MHz	3 W	+/- 1.0 PPM	OWDTR-0164-E	90	3636B-0144	RSS-119	NA
851-861 MHz	3 W	±1.0 ppm	OWDTR-0144-E	90	3636B-0144	RSS-119	NA
851-869 MHz	3 W	+/- 1.0 PPM	OWDTR-0164-E	90	3636B-0169	RSS-119	NA
2402-2480	0.2 W	NA	OWDTR-0164-E	15	3636B-0171	RSS-119	NA
5180-5825	0.1 W	NA	OWDTR-0164-E	15	3636B-0172	RSS-119	NA

LMR RECEIVER			
Frequency Bands	VHF	UHF	700/800 MHz
Frequency Ranges (MHz):	136-174	378-522	763-776, 851-870
Channel Spacing (kHz)	25 (wideband*), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)		
Frequency Stability (-30 to +60°C)	±1.0 ppm	±1.0 ppm	±1.0 ppm
Sensitivity (dBm): @ 12 dB SINAD	-122	-121	-121 (700 MHz) -120 (800 MHz)
Project 25 Reference Sensitivity (dBm):@ 5% BER	-122	-121	-120.5
Analog Selectivity (dB): @ 25 kHz @ 12.5 kHz	77 71	77 70	74 64
Project 25 Adjacent Channel Rejection (dB)	66.2	62.2	62
Offset Channel Selectivity (dB):@ NPSPEC	NA	NA	30
Intermodulation (dB)	80	81	77
Spurious and Image Rejection (dB)	90	87	80
FM Hum and Noise (dB): @ 25 kHz @ 12.5 kHz	-60 -55	-60 -53	-55 -50
Audio Output - RATED (W)	1.5	1.5	1.5
Audio Distortion @ Rated Power	1.1	1.1	1.1

\*Full-spectrum multiband VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

ENVIRONMENTAL STANDARD			
Applicable Standards	Parameter	Methods	Procedure/Categories
MIL-STD-810G	Low pressure	500.5	1, 2
	High temperature	501.5	1, 2
	Low temperature	502.5	1, 2
	High Temperature Continuous TX	501.5	2
	Low Temperature Continuous TX	502.5	2
	Temperature shock	503.5	1B
	Contamination by fluids	504.1	2
	Solar radiation (240 Hours)	505.5	1 (cycling)
	Blowing Rain	506.5	1
	Dripping Water Exposure	506.5	3
	Humidity	507.5	2
	Salt fog	509.5	1
	Blowing dust and sand	510.5	1, 2
	Explosive atmosphere	511.5	1
	Immersion in water	512.5	1
	Vibration (minimum integrity)	514.6	1, Category 24
	Vibration (basic transportation)	514.6	1, Category 4
Shock (functional/basic)	516.6	1	
Shock (transit drop)	516.6	4	
Shock (bench handling)			
IEC 60529	Dust Tight, 2 meters continuous water immersion, 4 hours		IP68
	IPX6 High Pressure Spray		
TIA-603-D	Vibration Stability		PAR 2.3.4 and 3.3.4
TIA-603-D Increased to 1.5 meters.	TIA/EIA 1 Meter Shock (Drop) MODIFIED		PAR 3.3.5.3
UL-60950-1	Steel Ball Impact		4.2.5-6
IEC61000-4-2	Electrostatic Discharge		

## SPECIFICATIONS FOR: XL EXTREME 400 PORTABLE FULL-SPECTRUM MULTIBAND RADIO

BROADBAND CONTINUED	
<b>LTE Protocol</b>	3GPP Release 11, Category 12, Power Class 3 UE with support for QoS QCI
<b>North American LTE Option</b>	N7NEM75S 4G LTE Bands: B2, B4, B5, B7, B12, B13, B14, B17, B26, B29, B30, B66 3G Bands: B2, B5 Carrier Certification: FirstNet®, AT&T, Verizon, Telus and T-Mobile
<b>International LTE Option (In selected countries)</b>	4G LTE Bands: B1, B3, B5, B7, B8, B28 3G Bands: B1, B5, B8 Carrier Certification: Telstra®
<b>Wi-Fi</b>	802.11 b/g/n/r 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks
<b>Bluetooth</b>	Bluetooth 4.0 (128-bit encryption)

HAZARD ZONE	
<b>Audio Speech Quality</b>	Perceptual Objective Listening Quality Analysis performed and pass after all testing listed below
<b>Vibration Resistance</b>	Vibrated for 3 hours, 1" (25mm) orbital path at 250 rpm
<b>Impact Acceleration</b>	9.8 ft (3m) dropped 8 times
<b>Corrosion</b>	48-hour salt spray. 48-hour 50% humidity chamber
<b>Display Surface Abrasion</b>	2.2lb (1kg) load, for 200 cycles
<b>High Temperature Functionality</b>	500°F (260°C) for 5 minutes
<b>Heat and Flame</b>	203°F (95°C) for 15 minutes, 10 seconds 1742°F (950°C) direct flame
<b>Product Label Durability</b>	Label examination post heat and immersion test, corrosion test, high temperature test
<b>Cable Pullout</b>	35 lbf (156 N) force
<b>Case Integrity</b>	442 lb. (200 kg) compression load, 1 minute, 4 faces
<b>Water Drainage</b>	Water is introduced into all openings, indentations and grills until water overflows. Speech and data logging is tested.
<b>Tumble</b>	3hrs, 15 RPM, Tumble Test in 46 in (117 cm) Metal Drum (2,700 total rotations)
<b>TIA Transmit Power</b>	Tested for carrier output and RF power output
<b>TIA Carrier Frequency Stability</b>	Tested for frequency stability and operating frequency accuracy
<b>TIA Receiver Sensitivity</b>	Tested for analog and digital reference sensitivity
<b>Power Source Performance</b>	Continuously operated for 8 hours on standard duty cycle 10-10-80 at max rated transmit power
<b>Electronic Temperature Stress</b>	Operated after temperature exposure of -4°F (-20°C) for 4 hours and 160°F (71°C) for 4 hours
<b>Antenna VSWR Swept Frequency</b>	Antenna performance must be maintained after Drop/Impact, Tumble and Corrosion tests
<b>HazLoc</b>	Class I Division 2, Groups A, B, C, D

DIGITAL OPERATION		
Protocol	P25	ProVoice™
<b>Vocoding Method</b>	AMBE+2™ enhanced full rate and enhanced half rate	AMBE+2 enhanced full rate
<b>Signaling Rate (kbps)</b>	9.6	9.6
<b>Modulation</b>	Phase 1 Tx: C4FM, Rx: C4FM and CQPSK Phase 2 TX: HCPM, RX: HDCQPSK	GSFK
<b>L3Harris Failsoft operation</b>	Switch to site trunking mode (for L3Harris infrastructure) or P25 Conventional Failsoft for Motorola infrastructure	

ENCRYPTION	
<b>Encryption Algorithms</b>	Voice Encryption: Single-key AES/DES, Multiple-key AES/DES, DES-CFB, Encryption Lite (ARC4), 256-bit AES P25, 64-bit DES Control Channel Encryption: 128-bit AES (LLA)
<b>Encryption Keys per Radio</b>	Capable of storing up to 1,045 keys
<b>Keying</b>	Local Key Loader, Wi-Fi, LTE and Over-The-Air Rekeying (OTAR), Motorola KVL 3000+/4000/5000
<b>Standards</b>	FIPS 140-2 Level 1, FIPS 197

BATTERIES			
Type	Dimensions (H x W x D)	Weight	Capacity (mAh)
<b>Li-Ion</b>	3.94 x 2.52 X 1.22 in (100 x 64 x 31 mm)	7.6 oz (215.4 g)	3610

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### XL Extreme 400P Portable Radio

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