

## XL-185P PORTABLE

### Converged LTE Land Mobile Radio

The L3Harris XL-185P is the industry's leading converged single-band Land Mobile Radio (LMR) with LTE. Situational Awareness is front and center as you combine crystal clear audio over your P25 radio system and data sharing capabilities on nationwide broadband networks. With industry-leading technology at your fingertips, you have more ways and more places to connect.

Engineered for top performance in severe conditions, the XL-185P is an ideal, economical choice for Public Safety and Utility workers. The XL-185P delivers industry-leading, loud audio powered by a 1.5 watt/4 watt max amplifier with woofer and tweeter speakers—and advanced noise cancellation technologies suppressing audio feedback to provide clear communications through a wide range of conditions.

The portable features a ruggedized aluminum I-beam frame and meets MIL-STD-810G for durability, including Method 511.5 for explosive atmospheres and Method 504.1 for contamination by fluids, so it can be scrubbed with cleansers and biological sanitizers.

Compact and lightweight, the XL-185P fits naturally into users' hands, with controls shaped for fast, easy, gloved-hand operation. The color-coded display and easy-access A-B-C-D switching allows fast identification and selection of priority talk groups. First Responders also avoid missing critical calls through the portable's ability to instantly recall and replay received audio.

The XL-185P supports a choice of encryption methods for secure communications, including single-key AES.



### ADVANCED CONNECTIVITY IN EXTREME ENVIRONMENTS

#### KEY BENEFITS

- > AT&T & Verizon Certified and FirstNet Ready™
- > Loud and clear audio with advanced noise cancellation
- > Ruggedized to meet stringent MIL-spec standards
- > Built-in Wi-Fi®, Bluetooth® and GPS
- > Secure voice and data encryption
- > Intuitive and easy to use

## SPECIFICATIONS FOR: XL-185P PORTABLE RADIO

GENERAL			
<b>Radio Models:</b> Full Keypad Partial Keypad	TFT LCD w/DTMF keypad, navigation cluster, soft keys TFT LCD w/partial keypad, navigation cluster, soft keys		
<b>Dimensions w/Battery (H x W x D)</b>	5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm)		
<b>Weight</b>	<b>w/ Battery, Antenna and LTE Modem</b> 18.2 oz (516 g)	<b>w/Battery and Antenna</b> 16.2 oz (464 g)	<b>w/o Battery and Antenna</b> 10.4 oz (296 g)
<b>Housing Colors</b>	Midnight Black, High-Visibility Yellow and High-Visibility Green		
<b>Interfaces:</b> Front Display Top Display Keypad Buttons  Tx/Rx Indicator	320 x 178 pixels, 1.8 inch transfective LCD, 16-bit color with backlight 128 x 32 pixels, OLED 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad Large PTT button, on/off knob, volume knob, red emergency button, 16-position top-mounted rotary knob, 2-position concentric switch, 4-position toggle switch, 3 programmable side buttons Multi-colored LEDs		
<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		
<b>Transceiver</b>	<b>Supported Bands</b> VHF, UHF, 700/800 MHz or 900 MHz, and LTE (optional)	<b>Channel Capacity</b> 12,500 (1,250 per mission plan)	
<b>Environmental:</b> Relative Humidity Vibration Drop Shock Immersion <sup>1</sup>	5% @ 140°F (+60°C), 95% @ 122°F (+50°C) USDA LMR Standard, Section 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) 2 meters for 4 hours in accordance with MIL-STD-810G/IP68		
<b>Operating Temperature<sup>2</sup></b>	-22° to +140°F (-30° to +60°C)		
<b>Storage Temperature<sup>3</sup></b>	-40° to +176°F (-40° to +80°C)		
<b>Altitude</b>	<b>Operational</b> 15,000 feet (4,572 meters)	<b>In Transit</b> 40,000 feet (12,192 meters)	
<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 52 -166 (GPS), -163 (GLONASS) -146 (GPS) <35 seconds <1 second		
<b>Safety:</b> Hazardous Location Options RoHS Compliant			

<sup>1</sup> Optional feature

<sup>2</sup> Extreme low temperatures adversely affect battery life

<sup>3</sup> Store batteries at +25°C ± 5°C

LMR TRANSMITTER				
Frequency Bands	VHF	UHF	700/800 MHz	900 MHz*
<b>Frequency Ranges (MHz)</b> Option 1 (US)	136-174	378-522	768-776, 798-806, 806-816, 851-861	896-902, 935-944
<b>Option 2 (International)</b>	136-174	378-522	763-776, 793-806, 806-825, 851-870	896-902, 935-944
<b>Rated RF Power/Talkaround (W)</b>	1-6	1-5	0.5-3	0.5-3.5
<b>Frequency Stability (-30 to +60°C)</b>	±1.0 ppm	±1.0ppm	±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)	2.5, 4, 5 (FM)
<b>Audio Response (dB)</b>	+1/-3	+1/-3	+1/-3	+1/-3
<b>Spurious and Harmonics (dBc)</b>	-80 (FCC Part 90)	-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	55 45
<b>Audio Distortion (%)</b>	<1.25	<1.25	<1.25	<1.25
<b>Project 25 Modulation Fidelity (%)</b>	1.0	1.0	1.0	1.0
<b>Project 25 Adjacent Channel Power (dBc)</b>	>71	>71	>71	>70

\*Configurations supporting the three (3) 700, 800 and 900 MHz frequency bands do not support 768-776 MHz/763-776 MHz talkaround

## SPECIFICATIONS FOR: XL-185P PORTABLE 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-0150-E	22, 74, 80, 90	3636B-0150	RSS-119	SPS-217 49/1
378 - 522 MHz	5 W	±1.0 ppm	OWDTR-0149-E	22, 74, 80, 91	3636B-0149	RSS-119	SPS-217 49/1
768 - 776 MHz	3 W	±1.0 ppm	OWDTR-0147-E & OWDTR-0148-E	90	3636B-0147	RSS-119	
798 - 806 MHz	3 W	±1.0 ppm	OWDTR-0147-E & OWDTR-0148-E	90	3636B-0147	RSS-119	
806 - 816 MHz	3 W	±1.0 ppm	OWDTR-0147-E	90	3636B-0147	RSS-119	
806 - 825 MHz	3 W	±1.0 ppm	OWDTR-0148-E	90	3636B-0148	RSS-119	
851 - 861 MHz	3 W	±1.0 ppm	OWDTR-0147-E	90	3636B-0147	RSS-119	
851 - 869 MHz	3 W	±1.0 ppm	OWDTR-0148-E	90	3636B-0148	RSS-119	
896 - 901 MHz	3 W	±1.0 ppm	OWDTR-0143-E	90, 24D, 101	3636B-0143	RSS-119	
901 - 902 MHz	3 W	±1.0 ppm	OWDTR-0143-E	90, 24D, 101	3636B-0143	RSS-119	
940 - 941 MHz	3 W	±1.0 ppm	OWDTR-0143-E	90, 24D, 101	3636B-0143	RSS-119	
935 - 940 MHz	3 W	±1.0 ppm	OWDTR-0143-E	90, 24D, 101	3636B-0143	RSS-119	
941 - 944 MHz	3 W	±1.0 ppm	OWDTR-0143-E	90, 24D, 101	3636B-0143	RSS-119	
2402 - 2460 MHz	VHF single band	0.2 W	N/A	OWDTR-0150-E	15	3636B-0150	RSS-119
	UHF single band	0.2 W	N/A	OWDTR-0149-E	15	3636B-0149	RSS-119
	RB single band	0.2 W	N/A	OWDTR-0147-E	15	3636B-0147	RSS-119
	NRB single band	0.2 W	N/A	OWDTR-0148-E	15	3636B-0148	RSS-119
5180 - 5825 MHz	VHF single band	.01 W	N/A	OWDTR-0150-E	15	3636B-0150	RSS-119
	UHF single band	.01 W	N/A	OWDTR-0149-E	15	3636B-0149	RSS-119
	RB single band	.01 W	N/A	OWDTR-0147-E	15	3636B-0147	RSS-119
	NRB single band	.01 W	N/A	OWDTR-0148-E	15	3636B-0148	RSS-119

\*Configurations supporting the three (3) 700, 800 and 900 MHz frequency bands do not support 768-776 MHz/763-776 MHz talkaround

LMR RECEIVER				
Frequency Bands	VHF	UHF	700/800 MHz	900 MHz
Frequency Ranges (MHz): Option 1 (US) Option 2 (International)	136-174 136-174	378-522 378-522	768-776, 851-861 763-776, 851-870	935-944 935-944
Channel Spacing (kHz)	25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)		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	±1.0 ppm
Sensitivity (dBm): @ 12 dB SINAD	-122	-121	-121 (700 MHz) -120 (800 MHz)	-120 (900 MHz)
Project 25 Reference Sensitivity (dBm): @ 5% BER	-122	-121	-120.5	-120.5
Analog Selectivity (dB): @ 25 kHz @ 12.5 kHz	77 71	77 70	74 64	74 64
Project 25 Adjacent Channel Rejection (dB)	66.2	62.2	62	62
Offset Channel Selectivity (dB): @ NPSPAC	NA	NA	30	30
Intermodulation (dB)	80	81	77	77
Spurious and Image Rejection (dB)	90	87	80	80
FM Hum and Noise (dB): @ 25 kHz @ 12.5 kHz	-60 -55	-60 -53	-55 -50	-55 -50
Audio Output - Rated/Max (mW)	1500/4000	1500/4000	1500/4000	1500/4000
Audio Distortion @ Rated Power (%)	1.1	1.1	1.1	1.1

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

\*Downlink only for Carrier Aggregation

## SPECIFICATIONS FOR: XL-185P PORTABLE RADIO

DIGITAL OPERATION		
Protocol	ProVoice™	P25
Vocoding Method	AMBE +2™ enhanced full rate	AMBE +2 enhanced full rate and enhanced half rate
Signaling Rate (kbps)	9.6	9.6
Modulation	GFSK	Phase 1 Tx: C4FM, Rx: C4FM and WCQPSK
L3Harris Failsoft operation	Switch to site trunking mode (for L3Harris infrastructure) or P25 conventional	

ENCRYPTION	
Encryption Algorithms	Voice Encryption: Single-key AES/DES, Multiple-key AES/DES, DES-OFB, Encryption Lite (ARC4), 256-bit AES P25, 64-bit DES Control Channel Encryption: 128-bit AES (LLA)
Encryption Keys per Radio	Capable of storing 128 keys (128 AES, 64 DES), store up to 5 UKEKs per radio
Keying	L3Harris Key Loader, Over-the-Air Rekeying (OTAR) for respective UKEKs, Motorola KVL 3000+/4000
Standards	FIPS 140-2, FIPS 197

BATTERIES			
Type	Dimensions (H x W x D)	Weight	Capacity (mAh)
Li-Ion	3.0 x 2.3 x 0.9 in	4.8 oz (136 g)	3100

## ACCESSORIES

### Headsets

The XL-185P can be used with a wide variety of headsets and covert audio accessories to provide a complete user-gear solution for the industrial, Public Safety, Utility and Transportation markets. Heavy-duty and lightweight headsets are available with in-ear or over-the-ear hearing protection, flexible boom microphones with noise-reduction technology, and standard or remote PTTs. In addition, the XL-185P can be used with Bone Conducting Skull Headsets and Throat Microphone/Headset Kits. Covert audio kits are available in black or beige, 2-wire or 3-wire configurations with ear-piece, microphone and PTT.



3-Wire Mini-Lapel Microphone



Tactical Headset

### Speaker Microphones

L3Harris offers a versatile line of speaker microphones for the XL-185P. In addition, a premium leather holster is available for attaching to a belt or wearing with the premium leather shoulder strap.



Standard Mic



Revo NC2 Speaker Mic



Advanced Bluetooth Speaker Mic



500 Fire-Rated Speaker Mic

### Chargers

L3Harris offers a variety of chargers for the XL-185P including Single-Bay, 2-Bay, Multi-Bay and a Vehicular Charger for in-car charging. The chargers are designed to quickly and safely charge battery packs in approximately 1 to 4 hours.



Single-Bay Charger



2-Bay Charger



Multi-Bay Charger\*



Vehicular Charger\*

### Additional Accessories Available

Bluetooth speaker microphones, Bluetooth covert earpieces, standard speaker microphones, Lithium Ion battery, PC programming software and cables, other subminiature surveillance accessories, and antennas.

\*Accessories unavailable in Brazil

Technical specifications are subject to change without notice. Product sales are subject to applicable U.S. export control laws.

### XL-185P PORTABLE

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### Non-Export Controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



**L3HARRIS™**  
FAST. FORWARD.

1025 W. NASA Boulevard  
Melbourne, FL 32919



**L3HARRIS™**  
FAST. FORWARD.



## **XL CONVERGE™ 200P**

Communicate Without Limits

For a radio you can rely on, no matter where the mission may take you, count on the XL Converge.

This radio redefines convergence. What that means to those who use it is simple—never having to second-guess the quality of your connection. The XL Converge™ 200P is a multiband, LTE-capable P25 radio that packs industry-leading technology into a tough, user-friendly frame. Advanced data sharing with built-in Wi-Fi and GPS maximize situational awareness. Crystal clear audio cuts through the background, courtesy of custom speakers and advanced noise cancellation. Ergonomic design and an intuitive interface makes use second-nature, keeping your focus off your radio and on the task at hand. Just like the rest of our XL Radios, the XL Converge™ 200P 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.

### **Anywhere, anyhow, always-on connection:**

- > Multiband, LTE-capable, P25 radios
- > Built-in Wi-Fi®, Bluetooth® and GPS
- > Advanced data sharing
- > Secure voice and data encryption
- > Crystal clear audio with advanced noise cancellation
- > Built to operate in harsh conditions
- > Long battery life
- > Intuitive and easy to use
- > Ergonomic, glove-friendly design



## SPECIFICATIONS FOR: XL CONVERGE 200P PORTABLE FULL-SPECTRUM MULTIBAND RADIO

GENERAL			
<b>Radio Models:</b> Full Keypad Partial Keypad	TFT LCD w/DTMF keypad, navigation cluster, soft keys TFT LCD w/partial keypad, navigation cluster, soft keys		
<b>Dimensions w/Battery (H x W x D)</b>	5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm)		
<b>Weight</b>	<b>w/ Battery, Antenna and LTE Modem</b> 18.2 oz (516 g)	<b>w/Battery and Antenna</b> 16.2 oz (464 g)	<b>w/o Battery and Antenna</b> 10.4 oz (296 g)
<b>Housing Colors</b>	Midnight Black, High-Visibility Yellow and High-Visibility Green		
<b>Interfaces:</b> Front Display Top Display Keypad Buttons  Tx / Rx Indicator	320 x 178 pixels, 1.8 inch transfective LCD, 16-bit color with backlight 128 x 32 pixels, 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad Large PTT button, on/off knob, volume knob, red emergency button, 16-position top-mounted rotary knob, 2-position concentric switch, 4-position toggle switch, 3 programmable side buttons Multi-colored LEDs		
<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		
<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 <sup>1</sup>	5% @ 140°F (+60°C), 95% @ 122°F (+50°C) USDA LMR Standard, Section 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) 2 meters for 4 hours in accordance with MIL-STD-810G/IP68		
<b>Operating Temperature<sup>2</sup></b>	-22° to +140°F (-30° to +60°C)		
<b>Storage Temperature<sup>3</sup></b>	-40° to +176°F (-40° to +80°C)		
<b>Altitude</b>	<b>Operational</b> 15,000 feet (4,572 meters)	<b>In Transit</b> 40,000 feet (12,192 meters)	
<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 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> Optional feature

<sup>2</sup> Extreme low temperatures adversely affect battery life

<sup>3</sup> Store batteries at +25°C ± 5°C

LMR TRANSMITTER			
Frequency Bands	VHF*	UHF*	700/800 MHz
<b>Frequency Ranges (MHz):</b> Option 1 (U.S.)	136-174	378-522	768-776, 798-806, 806-816, 851-861
Option 2 (International)	136-174	378-522	763-776, 793-806, 806-825, 851-870
<b>Rated RF Power/Talkaround (W)</b>	1-6	1-5	0.5-3
<b>Frequency Stability (-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 CONVERGE 200P 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-0133-E, OWDTR-0145-E	22, 74, 80, 90	3636B-0133, 3636B-0145	RSS-119	SPS-217 49/1
378-522 MHz	5 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E	22, 74, 80, 90	3636B-0133, 3636B-0145	RSS-119	SPS-217 49/1
768-776 MHz	3 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E	90	3636B-0133, 3636B-0145	RSS-119	
798-806 MHz	3 W	±1.0 ppm	OWDTR-0133-E, OWDTR-0145-E	90	3636B-0133, 3636B-0145	RSS-119	
806-816 MHz	3 W	±1.0 ppm	OWDTR-0133-E	90	3636B-0133	RSS-119	
806-825 MHz	3 W	±1.0 ppm	OWDTR-0145-E	90	3636B-0145	RSS-119	
851-861 MHz	3 W	±1.0 ppm	OWDTR-0133-E	90	3636B-0133	RSS-119	
851-869 MHz	3 W	±1.0 ppm	OWDTR-0145-E	90	3636B-0133	RSS-119	
2402-2480 MHz	0.2 W	N/A	OWDTR-0133-E, OWDTR-0145-E	15	3636B-0133, 3636B-0145	RSS-119	
5180-5825 MHz	0.1 W	N/A	OWDTR-0133-E, OWDTR-0145-E	15	3636B-0133, 3636B-0145	RSS-119	

LMR RECEIVER			
Frequency Bands	VHF	UHF	700/800 MHz
<b>Frequency Ranges (MHz):</b> Option 1 (U.S.) Option 2 (International)	136-174 136-174	378-522 378-522	768-776, 851-861 763-776, 851-870
<b>Channel Spacing (kHz)</b>	25 (wideband*), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)		
<b>Frequency Stability (-30 to +60°C)</b>	±1.0 ppm	±1.0 ppm	±1.0 ppm
<b>Sensitivity (dBm):</b> @ 12 dB SINAD	-122	-121	-121 (700 MHz) -120 (800 MHz)
<b>Project 25 Reference Sensitivity (dBm):</b> @ 5% BER	-122	-121	-120.5
<b>Analog Selectivity (dB):</b> @ 25 kHz @ 12.5 kHz	77 71	77 70	74 64
<b>Project 25 Adjacent Channel Rejection (dB)</b>	66.2	62.2	62
<b>Offset Channel Selectivity (dB):</b> @ NPSPEC	N/A	N/A	30
<b>Intermodulation (dB)</b>	80	81	77
<b>Spurious and Image Rejection (dB)</b>	90	87	80
<b>FM Hum and Noise (dB):</b> @ 25 kHz @ 12.5 kHz	-60 -55	-60 -53	-55 -50
<b>Audio Output - Rated / Max (mW)</b>	1500/4000	1500/4000	1500/4000
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 MIL-STD	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
	Temperature shock	503.5	1
	Solar radiation	505.5	1
	Contamination by fluids	504.1	2
	Rain	506.5	1, 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)	516.6	6	
IEC 60529	Dust-tight, continuous immersion in water**		IP68

\*Also meets equivalent superseded MIL-STD-810D, -E and -F

\*\*Optional feature

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

\*Downlink only for Carrier Aggregation

## SPECIFICATIONS FOR: XL CONVERGE 200P PORTABLE FULL-SPECTRUM MULTIBAND RADIO

DIGITAL OPERATION		
Protocol	ProVoice™	P25
Vocoding Method	AMBE+2™ enhanced full rate	AMBE+2 enhanced full rate and enhanced half rate
Signaling Rate (kbps)	9.6	9.6
Modulation	GFSK	Phase 1 Tx: C4FM, Rx: C4FM and WCQPSK
L3Harris Failsoft operation	Switch to site trunking mode (for L3Harris infrastructure) or P25 conventional	

ENCRYPTION	
Encryption Algorithms	Voice Encryption: Single-key AES/DES, Multiple-key AES/DES, DES-OFB, Encryption Lite (ARC4), 256-bit AES P25, 64-bit DES Control Channel Encryption: 128-bit AES (LLA)
Encryption Keys per Radio	Capable of storing 128 keys (128 AES, 64 DES), store up to 5 UKEKs per radio
Keying	L3Harris Key Loader, Over-the-Air Rekeying (OTAR) for respective UKEKs, Motorola KVL 3000+/4000
Standards	FIPS 140-2, FIPS 197

BATTERIES			
Type	Dimensions (H x W x D)	Weight	Capacity (mAh)
Li-Ion	3.0 x 2.3 x 0.9 in	4.8 oz (136 g)	3100

### ACCESSORIES

The XL-200P is available with a selection of dependable L3Harris accessories that operate in a range of environments. Several are shown below.

#### Headsets

The XL-200P can be used with a wide variety of headsets and covert audio accessories to provide a complete user-gear solution for the industrial, Public Safety, Utility, and Transportation markets. Heavy-duty and lightweight headsets are available with in-ear or over-the-ear hearing protection, flexible boom microphones with noise-reduction technology, and standard or remote PTTs. In addition, the XL-200P can be used with Bone Conducting Skull Headsets and Throat Microphone/Headset Kits. Covert audio kits are available in black or beige, 2-wire or 3-wire configurations with ear-piece, microphone and PTT.



3-Wire Mini-Lapel Microphone



Tactical Headset

#### Speaker Microphones

L3Harris offers a versatile line of speaker microphones for the XL-200P.



Standard Mic



REVO NC2 Speaker Mic



Advanced Bluetooth Speaker Mic



500 Fire-Rated Speaker Mic

#### Chargers

L3Harris offers a variety of chargers for the XL-200P: Single-Bay, 2-Bay, Multi-Bay and a Vehicular Charger for in-car charging. The chargers are designed to quickly and safely charge battery packs in approximately 1 to 4 hours.



Single-Bay Charger



2-Bay Charger



Multi-Bay Charger\*



Vehicular Charger\*

#### Additional Accessories Available

Bluetooth speaker microphones, Bluetooth covert earpieces, standard speaker microphones, Lithium Ion battery, PC programming software and cables, other subminiature surveillance accessories, and antennas.

\*Accessories unavailable in Brazil

#### Non-Export Controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.