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Authorized L3Harris Reseller

L3Harris XL-185P Portable Radio

The portable radio is the base item that can be configured to your specific requirements by selecting the appropriate model followed by the features and accessories listed in the 'Features/Options/Accessories' column. All radios require a battery, antenna and charger to operate.

VENDOR	BRAND/MODEL	MSRP
	L3HARRIS PORTABLE RADIOS – XL-185P	
Communications International	L3Harris / XS-PFS+ - PORTABLE, XL-185P FULL KEYPAD	\$2,250.00
Communications International	L3Harris / XS-PPS+ - PORTABLE, XL-185P PARTIAL KEYPAD	\$2,050.00
	FEATURES/OPTIONS/ACCESSORIES	
Communications International	L3Harris / XS-PL9F - FEATURE, P25C FALLBACK/MS FAILSOFT	\$250.00
	L3Harris / XS-FW2X - OPERATION, LOAD NIFOG	
Communications International	PERSONALITY	\$0.01
Communications International	L3Harris / XS-PL4F - FEATURE, P25 PHASE 2 TDMA	\$250.00
Communications International	L3Harris / XS-PL8Y - FEATURE, ENCRYPTION LITE	\$0.01
Communications International	L3Harris / XS-PL9E - FEATURE, SINGLE-KEY AES ENCRYPTION	\$0.01
Communications International	L3Harris / XS-PL4U - FEATURE, SINGLE-KEY DES ENCRYPTION	\$0.01
Communications International	L3Harris / XS-PKGPT - FEATURE PACKAGE, P25 TRUNKING	\$1,500.00
Communications International	L3Harris / XS-PL4J - FEATURE, SINGLE BAND VHF	\$0.01
Communications International	L3Harris / XS-PL4K - FEATURE, SINGLE BAND UHF	\$0.01
Communications International	L3Harris / XS-PL4L - FEATURE, SINGLE BAND 7/800	\$0.01
Communications International	L3Harris / XS-PA3V - BATTERY, LI-ION,3100 MAH	\$150.00
	Power Products / BPPA3VLIXT - BATTERY, LI-ION, HI-	
Communications International	CAPACITY, 5000MAH, 17 HR RUNTIME	\$99.00
Communications International	L3Harris / XS-NC5Z - ANTENNA, FLEX, HELICAL,136-870 MHZ	\$30.00
Communications International	L3Harris / XS-AE9N - SPEAKER MICROPHONE	\$195.00
Communications International	L3Harris / XS-HC3L - BELT CLIP, METAL	\$30.00
Communications International	L3Harris / XS-CH4X - CHARGER, 1-BAY	\$170.00
Communications International	L3Harris / XS-CH5A - CHARGER, 6-BAY	\$895.00
Communications International	L3Harris / AT6085A - CHARGER, 12-BAY, LITHIUM	\$895.00



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					
Radio Models: Full Keypad Partial Keypad	TFT LCD w/DTMF keypad, navigation cluster, soft keys TFT LCD w/partial keypad, navigation cluster, soft keys				
Dimensions w/Battery (H x W x D)	5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm	n)			
Weight	w/ Battery, Antenna and LTE Modem 18.2 oz (516 g) w/Battery and Antenna 16.2 oz (464 g) w/o Battery and Antenna 10.4 oz (296 g)				
Housing Colors	Midnight Black, High-Visibility Yellow and	High-Visibility Green			
Interfaces: Front Display Top Display Keypad Buttons Tx/Rx Indicator	320 x 178 pixels, 1.8 inch transflective 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				
Channel/Talkgroup Capacity	1,250 total conventional channels and 13,824 total talkgroups				
Radio Programming	Firmware, personalities and feature set over Wi-Fi				
Transceiver	Supported Bands VHF, UHF, 700/800 MHz or 900 MHz, and LTE (optional) Channel Capacity 12,500 (1,250 per mission plan)				
Environmental: Relative Humidity Vibration Drop Shock Immersion ¹	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				
Operating Temperature ²	-22° to +140°F (-30° to +60°C)				
Storage Temperature ³	-40° to +176°F (-40° to +80°C)				
Altitude	Operational In Transit 15,000 feet (4,572 meters) 40,000 feet (12,192 meters)				
Electrical Input Voltage	7.5 VDC (nominal)				
GPS/GNSS Specifications: 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	I			

Safety:

Hazardous Location Options RoHS Compliant

³ Store batteries at +25°C ± 5°C

LMR TRANSMITTER						
Frequency Bands	VHF	UHF	700/800 MHz	900 MHz*		
Frequency Ranges (MHz) Option 1 (US)	136-174	378-522	768-776, 798-806, 806-816, 851-861	896-902, 935-944		
Option 2 (International)	136-174	378-522	763-776, 793-806, 806-825, 851-870	896-902, 935-944		
Rated RF Power/Talkaround (W)	1-6	1-5	0.5-3	0.5-3.5		
Frequency Stability (-30 to +60°C)	±1.0 ppm	±1.0ppm	±1.0 ppm	±1.0 ppm		
Modulation Limiting (kHz)	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)		
Audio Response (dB)	+1/-3	+1/-3	+1/-3	+1/-3		
Spurious and Harmonics (dBc)	-80 (FCC Part 90)	-80 (FCC Part 90)	-80 (FCC Part 90)	-80 (FCC Part 90)		
FM Hum and Noise Companion Receiver (dB): @ 25 kHz @ 12.5 kHz	70 47	60 47	55 45	55 45		
Audio Distortion (%)	<1.25	<1.25	<1.25	<1.25		
Project 25 Modulation Fidelity (%)	1.0	1.0	1.0	1.0		
Project 25 Adjacent Channel Power (dBc)	>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

¹ Optional feature

² Extreme low temperatures adversely affect battery life

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	
	VHF single band	0.2 W	N/A	OWDTR-0150-E	15	3636B-0150	RSS-119	
2402 - 2460 MHz	UHF single band	0.2 W	N/A	OWDTR-0149-E	15	3636B-0149	RSS-119	
2402 - 2460 MH2	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	
-400 -00-W	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	
5180 - 5825 MHz	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

VHF	UHF	700/800 MHz	900 MHz
136-174 136-174	378-522 378-522	768-776, 851-861 763-776, 851-870	935-944 935-944
(narrowhand)		25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)	
±1.0 ppm	±1.0 ppm	±1.0 ppm	±1.0 ppm
-122	-121	-121 (700 MHz) -120 (800 MHz)	-120 (900 MHz)
-122	-121	-120.5	-120.5
77 71	77 70	74 64	74 64
66.2	62.2	62	62
NA	NA	30	30
80	81	77	77
90	87	80	80
-60 -55	-60 -53	-55 -50	-55 -50
1500/4000	1500/4000	1500/4000	1500/4000
1.1	1.1	1.1	1.1
	136-174 136-174 25 (wideband), 1 (narrowband), 6.25 equiv (TDM ±1.0 ppm -122 -122 77 71 66.2 NA 80 90 -60 -55 1500/4000	136-174 378-522 136-174 378-522 25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2) ±1.0 ppm ±1.0 ppm -122 -121 -122 -121 77 77 77 70 66.2 62.2 NA NA 80 81 90 87 -60 -60 -55 -53 1500/4000 1500/4000	136-174

BROADBANI	D
LTE Protocol	3GPP Release 11, Category 12, Power Class 3 UE with support for QoS QCI
North America LTE Option	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
International LTE Option (In selected countries)	4G LTE Bands: B1, B3, B5, B7, B8, B28 3G Bands: B1, B5, B8
Wi-Fi	802.11 b/g/n 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks
Bluetooth *Downlink only	Bluetooth 4.0 (128-bit encryption) 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)
Keying	L3Harris Key Loader, Over-the-Air Rekeying (OTAR), Motorola KVL 3000+/4000
Standards	FIPS 140-2, FIPS 197

BATTERIES			
Туре	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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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.



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