



**L3HARRIS**<sup>®</sup>  
FAST. FORWARD.

## **XL CONVERGE™ 300P**

Built for Today's Frontline. Ready for Tomorrow's Mission.

The next evolution in mission-critical converged communications is here.

Future-proof, rugged and reliable, the XL-300P is built around a simple truth: coverage is king. By converging LMR, 5G broadband, Wi-Fi® and satellite networks, the XL-300P delivers seamless communications across any network in a single hardened device. For frontline users, that means unmatched connectivity, secure communications and uncompromised performance wherever the mission leads.

Built on the proven XL platform, the XL-300P pairs industry-leading technology with durability and reliability to give users a redesigned, intuitive and unmatched experience.

### **UNMATCHED CONNECTIVITY**

Best-in class converged LMR, 5G, Wi-Fi and satellite communications with seamless roaming, enabling communications in any environment.

### **IRONCLAD SECURITY**

FIPS 140-3 Level 3 security and multi-key end-to-end encryption to keep your communications safe from evolving threats.

### **BUILT-TO-LAST**

Designed with durability-focused upgrades and reinforced mechanical elements to ensure the device is ready when you need it most.

**Always Connected.**  
**Always Secure.**  
**Always ready.**

- > **Advanced 5G connectivity** for improved efficiency and future-proof connectivity
- > **Native satellite-enabled comms** extends communication beyond terrestrial limitations
- > **FIPS 140-3 Level 3 security** delivers our most secure P25 solution on the market
- > **Powerful user experience** integrated, glove-friendly keypad and intuitive UI straightforward operation
- > **Voice controls** enable hands-free operation in high-stress or hazardous environments
- > **Data over broadband** enables enhanced situational awareness and remote fleet management
- > **Backed with 24/7 support** to ensure your device is ready for the mission at hand

## SPECIFICATIONS FOR: XL CONVERGE 300P SECURE MULTI-NETWORK ALL-BAND RADIO

GENERAL		
<b>Radio Models:</b> <b>Full Keypad</b>	TFT LCD w/DTMF 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</b> 18.2 oz (516 g)	<b>w/o Battery and Antenna</b> 12.4 oz (352 g)
<b>Housing Colors</b>	Midnight Black	
<b>Interfaces:</b> <b>Front Display</b> <b>Top Display</b> <b>Keypad</b> <b>Buttons</b>	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	
<b>Tx / Rx Indicator</b>	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 USB, Wi-Fi or 5G /4G LTE	
<b>Transceiver</b>	<b>Supported Bands</b> VHF, UHF and 700/800 MHz and 5G	<b>Channel Capacity</b> 12,500 (1,250 per mission plan)
<b>Environmental:</b> <b>Relative Humidity</b> <b>Vibration</b> <b>Drop Shock</b> <b>Immersion<sup>1</sup></b>	5% @ 140°F (+60°C), 95% @ 122°F (+50°C) TIA-603-D (PAR 2.3.4 and 3.3.4) and MIL-STD-810H, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) 2 meters for 4 hours in accordance with MIL-STD-810H/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> <b>Tracking Sensitivity (dBm)</b> <b>Acquisition Sensitivity (dBm)</b> <b>Cold Start w/-130 dBm input</b> <b>Hot Start w/-130 dBm input</b>	P25 standard Tier 2, Tier 1 and L3Harris In-Band GPS -167 (GPS), -163 (GLONASS) 1.5m (GPS), 4m (GLONASS) <30 seconds (GPS and GLONASS) <1 second	
<b>Safety:</b> <b>Hazardous Location Options</b> <b>RoHS Compliant</b>	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>	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> <b>@ 25 kHz</b> <b>@ 12.5 kHz</b>	-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

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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-0179-E	22, 74, 80, 90	3636B-0179	RSS-119	SPS-217 49/1
378-522 MHz	5 W	±1.0 ppm	OWDTR-0179-E	22, 74, 80, 90	3636B-0179	RSS-119	SPS-217 49/1
769-775 MHz	3 W	±1.0 ppm	OWDTR-0179-E	90	3636B-0179	RSS-119	
799-805 MHz	3 W	±1.0 ppm	OWDTR-0179-E	90	3636B-0179	RSS-119	
806-824 MHz	3 W	±1.0 ppm	OWDTR-0179-E	90	3636B-0179	RSS-119	
851-869 MHz	3 W	±1.0 ppm	OWDTR-0179-E	90	3636B-0179	RSS-119	
2402-2480 MHz	0.2 W	N/A	OWDTR-0179-E	15	3636B-0179	RSS-119	
5180-5825 MHz	0.1 W	N/A	OWDTR-0179-E	15	3636B-0179	RSS-119	

LMR RECEIVER			
Frequency Bands	VHF	UHF	700/800 MHz
Frequency Ranges (MHz):	136-174	378-522	763-776, 768-776, 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	77	77	74
@ 12.5 kHz	71	70	64
Project 25 Adjacent Channel Rejection (dB)	66.2	62.2	62
Offset Channel Selectivity (dB): @ NPSAC	N/A	N/A	30
Intermodulation (dB)	80	81	77
Spurious and Image Rejection (dB)	90	87	80
FM Hum and Noise (dB): @ 25 kHz	-60	-60	-55
@ 12.5 kHz	-55	-53	-50
Audio Output - Rated / Max (mW)	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-810H*	Low pressure	500.6	1, 2
	High temperature	501.7	1, 2
	Low temperature	502.7	1, 2
	Temperature shock	503.7	1
	Solar radiation	505.7	1
	Contamination by fluids	504.3	Occasional Contamination
	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, -F and -G

\*\*Optional feature

BROADBAND	
Category	3GPP Release 17 5G NR Sub-6 LTE Cat 4
5G Bands	n1, n2, n3, n5, n7, n8, n12, n13, n14, n25, n26, n28, n40, n41, n48, n66, n71, n77
LTE Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B25, B26, B28, B40, B41, B48, B66, B71, B106.
Carrier Certification	FirstNet®, AT&T, Verizon, T-Mobile, Southern Linc, *Telus, *Telstra
Wi-Fi	802.11 b/g/n/r 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks
Bluetooth®	Bluetooth 4.0 (128-bit encryption)

\* Pending certification

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

ENCRYPTION	
Encryption Algorithms	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)
Encryption Keys per Radio	Capable of storing 1,045 keys
Keying	L3Harris Key Loader, Over-the-Air Rekeying (OTAR) for respective UKEKs, Motorola KVL 3000+/4000/5000
Standards	FIPS 140-3 Level 1 and Level 3, 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
High Capacity Battery	3.0x2.3x1.3 in (76.2x58.4x33.0 mm)	7.2oz (204 g)	4800

### ACCESSORIES

#### Headsets

XL-300P works with diverse headsets and covert audio accessories for industrial, public safety, utility and transportation markets. It supports lightweight and heavy-duty headsets, bone conducting skull headsets, throat microphone/headset kits and covert kits in 2 or 3-wire configurations.



3-Wire Mini-Lapel Microphone



Tactical Headset

#### Speaker Microphones

L3Harris offers a versatile line of speaker microphones for the XL-300P.



XL Extreme™ Speaker Mic



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-300P: Single-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.



XL Single-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

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#### XL Converge 300P Portable Radio

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