

With today's challenging environment, customers told us they wanted high-quality L3Harris radio technology but in a more affordable configuration.

You spoke, we listened.

We packed the XL Connect™ 95P with just the right features to meet your need for unstoppable and secure critical communication connections. With Wi-Fi enabled voice and device management, you can communicate just about anywhere without ever leaving your system. And you'll find features typically only in higher-priced radios like GPS, Bluetooth connectivity, and instant recall. Just like the rest of our XL radios, the XL Connect™ 95P 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

A new way to stay connected that's fit for your budget:

- > WiFi-enabled voice and device management
- > Always connected, anywhere communications
- > Features formerly only available in higher-priced radios like GPS, Bluetooth, and instant recall
- Encrypted voice and data for secure communications
- > The right features at an affordable price
- Multimode solution supporting legacy L3Harris platforms, P25, EDACS®, and ProVoice™

SPECIFICATIONS FOR: XL CONNECT 95 PORTABLE RADIO

GENERAL			
Specifications			
Radio Model Numbers XN-PF78M XN-PFVUM	XL-95P 700/800 MHz Portable radio XL-95P VHF & UHF Dual band Portable radio		
Full Keypad	Color LCD and DTMF keypad		
Dimensions (H x W x D): (without antenna, battery, and knobs)	5.9 x 2.4 x 1.9 in (149.6 x 62.0 x 47.2 mm)		
Weight (without antenna and battery)	10.9 oz (310g)		
Housing Color	Midnight Black		
Environmental Specifications			
Relative Humidity	95% @ 140°F (+60°C)		
Vibration	9.2G (per U.S. Forest Service)		
Drop Shock	1.5 m drop to concrete (exceeds TIA-603-C)		
Immersion ¹	2 m for 4 hrs in accordance with MIL-STD-810G / IP68 (per IEC60529)		
Operating Temperature ²	-22° to +140°F (-30° to +60°C)		
Storage Temperature	-40° to +176°F (-40° to +80°C)		
Store batteries at the following temperatures:			
Li-Ion	-40° to + 176°F (-40° to +80°C)		
Altitude			
Operational	15,000 ft (4,572 m)		
In Transit	50,000 ft (15,240 m)		
Electrical			
Input Voltage	7.5 VDC (nominal)		
Safety			
HAZLOC Option	700/800 MHz model: UL certified to UL 121201, CAN/CSA C22.2 No. 213 standards, Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations. VHF/UHF model:		
	UL approval pending for use in US and Canada in Class I, Division 2, Groups A, B, C and D Hazardous Locations		
RoHS compliant			

¹Optional feature ²Extremely low temperatures adversely affect battery life

TRANSMITTER					
Typical Performance Specifications	VHF	UHF	700/800		
Frequency Range (MHz): (US) (International)	136-174 MHz	378-522 MHz	768-776, 798-806, 806-816, 851-861 763-776, 793-806, 806-825, 851-870		
Rated RF Power (W)	6 (Trnk & Talkaround)	5 (Trnk & Talkaround)	3 (Trnk & Talkaround)		
Frequency Stability (-30°C to +60°C, +25°C Ref) (ppm)	±1.0	±1.0	±0.6		
Frequency Separation (MHz)	Full Bandwidth	Full Bandwidth	Full Bandwidth (within 700 or 800 MHz band)		
Modulation Deviation (kHz)	5.0 (wideband*) 2.5 (narrowband)	5.0 (wideband*) 2.5 (narrowband)	5.0 (wideband*), 4.0 (NPSPAC) 2.5 (narrowband)		
FM Hum and Noise Companion Receiver (dB)	45 @ 25 kHz 43 @ 12.5 kHz	45 @ 25 kHz 43 @ 12.5 kHz	44 (700 MHz) 47 (800 MHz NPSPAC) 48 (800 MHz non-NPSPAC)		
Spurious and Harmonics (dBm / dBc)	-36/-75	-55 / -90	-55/90		
Audio Response (dB)	+1/-3	+1/-3	+1/-3		
Audio Distortion (1 kHz tone): @ 3 kHz deviation @ 2.4 kHz deviation @ 1.5 kHz deviation	2%	2%	1% (800 MHz non-NPSPAC) 1% (800 MHz NPSPAC) 1% (700 MHz)		
Project 25 Modulation Fidelity (%)	3	3	1		
Project 25 Adjacent Channel Power (dBc)	>67	>67	73		

^{*}VHF/UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

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REGULATORY DATA						
Frequency Range (MHz)	RF Output (W)	Frequency Stability (ppm)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
763-775; 793-805; 806-825; 851-870	3	0.2	OWDTR 0162-E	15C, 15E, 90		
768-776; 798-806; 806-824; 851-869	3				3636B-0162	RSS-119
136-174; 378-522	6 (136-174 MHz) 5 (378-522 MHz)	±1.0	TBD	22, 74, 80, 90	TBD	RSS-119

RECEIVER			
Typical Performance Specifications	VHF	UHF	700/800 MHz
Frequency Range (MHz): (US) (International)	136-174 MHz	378-522 MHz	768-776, 851-861 763-776, 851-870
Frequency Separation (MHz)	Full Bandwidth	Full Bandwidth	Full Bandwidth (within 700 or 800 MHz band)
Channel Spacing (kHz)	25 (wideband*) 12.5 (narrowband)	25 (wideband*) 12.5 (narrowband)	25 (wideband*) 12.5 (narrowband)
Frequency Stability (-30 to +60°C, +25 °C Ref) (ppm)	±1.0	±1.0	±1.5
Sensitivity (12 dB SINAD) (μV / dBm)	0.25/-119.0	0.25/-119.0	0.25/-119.0
Adjacent Channel Selectivity: @ 25 kHz (dB) @ 12.5 kHz (dB)	>70 >60	>77 >69	75 (800 MHz non-NPSPAC) 67 (700 MHz)
Intermodulation (dB)	>77	>77	76
Spurious and Image Rejection (dB)	>90	>77	>74
FM Hum and Noise (dB)	> 50 @ 25 kHz > 45 @ 12.5 kHz	> 50 @ 25 kHz > 45 @ 12.5 kHz	44 (700 MHz) 53 (800 MHz NPSPAC) 54 (800 MHz wideband)
Audio Output (mW)	500 rated (3800 max)	500 rated (3800 max)	500 rated (3800 max)
Audio Distortion @ Rated Power (%)	1.5	1.5	1.5
Project 25 Reference Sensitivity @ 5% BER (μV / dBm)	0.25/-119	0.25/-119	0.25/-119
Project 25 Adjacent Channel Rejection (dB)	60	60	60

ENVIRONMENTAL STANDARD			
Standard	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-B
	Solar Radiation	505.5	2
	Blowing Rain	506.5	1
	Humidity	507.5	2
	Salt Fog		1
	Blowing Dust		1
Immersion**		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
IEC 60529	Dust tight, Continuous Immersion	IP68	
U.S. Forest Service	Vibration (10-60 Hz)	USDA LMR Standard Section 2.15	
TIA-603-C***	Shock (1-meter drop)	Paragraph 3.3.5.3	

^{*}Also meets equivalent superseded MIL-STD-810D, E and F

**XL Connect 95P immersion model only. Available option that must be ordered. Additional certification for water intrusion with water depth of 2 meters for 4 hours

***Environmental test certification of 1.5-meter drop shock to concrete using parameters of TIA-603-C 1.0-meter drop shock with additional height

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DIGITAL OPERATION					
Protocol	ProVoice	P25			
Vocoding Method	AMBE+2 Enhanced Full Rate	AMBE+2 Enhanced Full Rate & Enhanced Half Rate			
Signaling Rate (kbps)	9.6	9.6			
Modulation	GFSK	Phase1 TX: C4FM, RX: C4FM & WCQPSK Phase 2 TX: HCPM, RX: WCQPSK			

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 192 keys (64 AES, 64 DES)

^{*}Interoperates with commonly available ARC4 encryption algorithms.

BATTERY				
Туре	Dimensions (H x W x D)	Weight	Life (@5% Tx, 5% Rx, and 90% standby)	Capacity (mAh)
Li-Ion	4.42 x 2.44 x 0.83 in	5.1 oz (145 g)	10 hrs	3100

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XL Connect 95P

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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.



1025 W. NASA Boulevard Melbourne, FL 32919