



L3HARRIS™
FAST. FORWARD.

XL-185M P25 **MOBILE RADIO**



GO WHEREVER THE JOB TAKES YOU

Your job takes you into challenging locations, sometimes far from your team. No matter where you go and what demands you face, you can go with the knowledge that the XL-185M's robust design, crystal clear audio and powerful XL capabilities help keep you connected to the people and information you need to do your job well.

AND TAKE EFFICIENCY WITH YOU

In an emergency or at a remote location, you need to get things done quickly and efficiently. The XL-185M P25 Mobile Radio's intuitive user interface, high-visibility display and modular design are engineered for the unique demands of utilities and public safety—letting you get behind the wheel with confidence.

GO WITH CONFIDENCE
WITH CONNECTIVITY





READY TO ROLL

With the XL-185M, you're ready to go to where your mission takes you, with decades of L3Harris experience behind you.

Audio excellence

Includes up to 5 speaker outputs and a tough, ergonomic digital microphone that delivers crystal clear audio and advanced noise cancellation.

Standard Wi-Fi®, Bluetooth® and GPS

Enhanced connectivity options come standard so you can go more places.

Secure, rugged and reliable

Multiple encryption options keep communications protected. Meets MIL-STD-810G standards for tough conditions.

LTE-capable

The XL-185M becomes an on-the-go communications hub with field upgradeable LTE and broadband connectivity.*

Intuitive user interface

High-visibility 3.3-inch color LCD display, 8 programmable buttons and simple menu access.

Modular design

A standard rail-mount system supports flexible mounting configurations, reducing total cost of ownership.



*Future release

YOUR VEHICLE JUST GOT MORE POWERFUL

Introducing the newest member of the XL FAMILY

XL FAMILY FAMILIARITY

Like all of the members of the XL FAMILY of radios, the XL-185M is the result of our heritage equipping first responders to do remarkable work remarkably well. Engineered to have the same powerful features as the XL portable radios—including built-in encryption, GPS and exceptional audio with advanced noise cancellation—its advanced technology and intuitive interface maximize your efficiency even in the most challenging environments.

CONNECT IN MORE PLACES

Right out of the box, the XL-185M is ready to perform and help you tackle the difficult jobs that require clear and reliable communication. It transforms your vehicle into an on-the-go communications hub with the addition of built-in LTE connectivity, providing hot spot capabilities that keep you connected through an LMR or LTE network.*

*Future release



Introducing the XL-185M P25 Mobile Radio

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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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XL-185M

Single-band P25 Mobile Radio

GENERAL	
Dimensions (H x W x D)	
Radio Only	2.0 x 6.9 x 9.7 in (49 x 174 x 230.5 mm)
Radio and Control Unit (includes knobs)	2.4 x 6.9 x 12.8 in (60 x 175 x 320.7 mm)
Control Unit (Remote) (includes knobs)	2.4 x 6.9 x 4.0 in (60 x 175 x 72.2mm)
Weight	
Front Mount Radio with Control Unit	7.0 lbs (3.2 kg)
Control Unit (Remote Mount)	1.3 lbs (0.6 kg)
Remote Mount Radio	5.0 lbs (2.3 kg)
Channel/Talkgroup Capacity	12,500 (1,250 per mission plan—up to 10 mission plans)
Control Unit	18-bit color LCD, 480 pixels x 220 pixels, 3.3-inch color LCD with up to 3 lines of text, Visual Channel/7 Zone backlit indicator colors, 5 programmable favorites buttons, separate volume and channel selector knobs, built-in speaker, single DIN sizing, 2 USB-C ports (1 for microphone)
Speakers	
External, 15 W	Two channels of 15 W of audio (< 3% distortion) on both the radio body and control head
Internal, 3W	Built-in Control Head Speaker
Environmental Specifications	
Relative Humidity	Per MIL-STD-810G
Ambient Temperature Range	-22°F to +140°F (-30°C to 60°C)
Altitude:	
Operational	15,000 ft (4,572 m)
In-Transit	50,000 ft (15,240 m)
System Voltage	10.8 to 16.3 VDC Negative Ground
GPS/GNSS	
Channels	P25 standard tier 2 and Harris in-band
Tracking Sensitivity (dBm)	52
Acquisition Sensitivity (dBm)	-166 (GPS), -163 (GLONASS)
Cold Start w/-130 dBm input	-146 (GPS)
Hot Start w/-130 dBm input	<35 seconds
	<1 second
LMR TRANSMITTER*	
Frequency Bands	700/800 or 900 MHz (VHF and UHF configurations available soon)
Frequency Ranges (MHz) US	769-775, 799-805, 806-816, 851-861, 896-901, 935-944
Frequency Ranges (MHz) International	763-776, 793-806, 806-825, 851-870, 896-902, 935-944
Modulation Limiting (kHz)	1.5, 2.5, 4, 5 (FM)
Audio Response	Meets TIA-603-D Section 3.2.6
Spurious and Harmonics (dBc)	-75, FCC Part 90
FM Hum and Noise	
@ 25 kHz (dB)	47.0
@ 12.5 kHz (dB)	45.0
Distortion (1kHz tone) (%)	<1.0
Project 25 Modulation Fidelity (%)	<3.00
Frequency Stability (-30 to +60°C) (ppm)	±1.5
Project 25 Adjacent Channel Power (dBc)	>67



The XL-185M is a single-band P25 mobile radio that delivers audio excellence through an ergonomic digital microphone and advanced noise cancellation technology to ensure that you can be heard in noisy environments. Designed for the unique demands of Utilities and Public Safety, the XL-185M is LTE-capable* and features standard Wi-Fi®, Bluetooth® and GPS. This advanced mobile radio meets MIL-STD-810G to survive the most rugged conditions and is easy to use with a high-visibility 3.3-inch color LCD display, 8 programmable buttons and simple menu access.

*Future release

[L3Harris.com](https://www.l3harris.com)

LMR RECEIVER*	
Frequency Bands	700/800 or 900 MHz
Frequency Ranges (MHz)	
US	768-776, 851-861, 935-944
International	763-776, 851-870, 935-944
Channel Spacing (kHz)	12.5, 20, 25
Sensitivity (12 dB SINAD)	-119 dBm (all bands)
P25 Reference Sensitivity (5% BER)	-119 dBm (all bands)
Adjacent Channel Rejection @ 25 kHz (dB)	73
P25 Adjacent Channel Rejection @ 12.5 kHz (dB)	60
Intermodulation (dB)	76
FM Hum and Noise @ 25 kHz (dB)	47
@ 12.5 kHz (dB)	45
Rated Speaker Audio Output Power (W)	2 channels of 15W RMS into 4 Ohm
Audio Distortion	< 3.0% @ rated power

*VHF and UHF configurations available soon

BROADBAND	
Wi-Fi	802.11 b/g/n 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks
Bluetooth	Bluetooth 4.0 (128-bit encryption)
LTE	Future release

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-B
	Solar Radiation	505.5	1/A1
	IP65 (Control Unit)	506.5	1, 3
	IP54 (Radio)	506.5	3
	Humidity	507.5	2
	Salt Fog	509.5	1
	Blowing Dust	510.5	1,2
	Vibration (Basic Transportation)	514.6	1, Category 4
	Vibration (Minimum Integrity)	514.6	1, Category 24
	Shock (Crash Hazard)	516.6	5
	Shock (Bench Handling)	516.6	6

ENVIRONMENTAL STANDARD			
U.S. Forest Service	Vibration (10-60 Hz)	Paragraph 2.15	
IEC 60529	Dust-tight and water jets	IP65 (Control Unit)	Table 2, Par. 13.4 Table 3, Par. 14.2.5

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

DIGITAL OPERATION		
Protocol	P25	ProVoice™
Vocoding Method	AMBE+2™ Enhanced Full Rate & Enhanced Half Rate	AMBE+2™ Enhanced Full Rate
Signaling Rate (kbps)	9.6	9.6
Modulation	Phase 1 TX: C4FM, RX: C4FM & WCQPSK Phase 2 TX: HCPM, RX: WCQPSK	GFSK
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	128 keys (128 AES, 64 DES)
Encryption Keying	L3Harris Key Loader, P25 Conventional and Trunked Over-the-Air-Rekeying (OTAR)

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
763-776, 793-806	30.0	0.1	OWDTR-0160-E	90	3636B-0160	RSS-119
806-825, 851-870	35.0	0.1	OWDTR-0160-E	90	3636B-0160	RSS-119
896-901	35.0	0.1	OWDTR-0160-E	90	3636B-0160	RSS-119
935-944	35.0	0.1	OWDTR-0160-E	90, 101	3636B-0160	RSS-119
Emission Designators	16K0F3E, 16K0F1D, 16K0F1E, 14K0F3E, 14K0F1D, 14K0F1E, 11K0F3E, 11K7F1D, 11K7F1E, 7K10F1D, 7K10F1E, 8K40F1D, 8K40F1E, 8K10DXW, 18K5F1W, 12K9F1W					

ACCESSORIES	
Microphone: Tough, ergonomic digital microphone enabling noise cancellation	
External speaker: Light, compact, and carefully tuned for the human voice, the XL-185M external speakers deliver clear and loud mission critical voice in an easy-to-mount enclosure	

XL-185M Single-Band Mobile Radio

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