

MEET THE NEW **XL-200M MULTIBAND P25 MOBILE RADIO**

The new XL-200M kicks mission-critical interoperability into high gear with VHF, UHF, 700/800 and 900 MHz communications. Trust this mobile for crystal-clear audio and rugged, reliable performance to help you stay connected.

ENHANCED CONNECTIVITY

Wi-Fi®, Bluetooth® and GPS are standard

LTE-CAPABLE

Field upgradeable to LTE broadband services*

AUDIO EXCELLENCE

Includes up to 5 speaker outputs and advanced noise cancellation technology

SECURE, RUGGED AND RELIABLE

Multiple encryption options secure communications. The XL FAMILY of mobiles also meets MIL-STD-810G standards for tough conditions

INTUITIVE USER INTERFACE

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

*Future release

Get Connected with
the XL-200M Multiband
P25 Mobile today



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XL-185M/XL-200M

Single-band and Multiband P25 Mobile Radios

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 72.2 mm)	
Weight:		
Remote Mount Radio	5.0 lbs (2.3 kg)	
Control Unit (Remote Mount)	1.3 lbs (0.6 kg)	
Front Mount Radio with Control Unit	7.0 lbs (3.2 kg)	
Channel / Talkgroup Capacity	12,500 (1,250 per mission plan—up to 10 mission plans)	
Radio Programming	Firmware, personalities and feature set over Wi-Fi	
Control Unit	18-bit color LCD	
	480 pixels x 220 pixels	
	3.3-inch color LCD with up to 3 lines of text	
	5 programmable favorites buttons	
	Separate volume and channel selector knobs	
	Built-in speaker	
	Single DIN sizing	
Speakers:	2 USB-C ports (1 for microphone)	
	Two channels of 15 W of audio (< 3% distortion)	
	on both the radio body and control head	
External, 15 W	Built-in Control Head Speaker	
Internal, 3 W		
Environmental Specifications:		
Relative Humidity	Per MIL-STD-810G	
Ambient Temperature Range	-22 to +140°F (-30 to 60°C)	
Altitude:		
Operational	15,000 ft (4,572 m)	
In-Transit	50,000 ft (15,240 m)	
Electrical:		
System Voltage	10.8 to 16.6 VDC negative ground	
Standby Current Drain	1 A	
Receive Current Drain	2 A	
Current Drain @ 35W TX	10 A	
Current Drain @ 50W TX	15 A	
GPS/GNSS:	XL Mobile with Core Connectivity Module	XL Mobile with LTE Core Connectivity Module
	P25 standard tier 2 and L3Harris in-band	
Channels	52	72
	-166 (GPS), -163 (GLONASS)	-160 (GPS)
	-146 (GPS)	-160
	< 35 seconds	26 seconds
	< 1 second	1.5 seconds
		Accelerometer for location tracking / dead reckoning in GPS-challenged environments



The single-band XL-185M and multiband XL-200M P25 mobile radios deliver audio excellence through an ergonomic digital microphone and advanced noise cancellation technology to enabling you to be heard in noisy environments. Designed for the unique demands of Public Safety and Utilities, the XL FAMILY of mobile radios are LTE ready and feature standard Wi-Fi®, Bluetooth® and GPS. These advanced mobile radios meet MIL-STD-810G to operate in extremely rugged conditions and are easy to use with a high-visibility 3.3-inch color LCD display, 8 programmable buttons and simple menu access.

LMR TRANSMITTER				
Frequency Bands (MHz)	VHF	UHF	700/800	900
Frequency Range (US)	136-174	378-522	768-776, 798-806, 806-816, 851-861	896-902, 935-944
Frequency Range (Int'l)	136-174	378-522	763-776, 793-806, 806-825, 851-870	896-902, 935-944
Modulation Limiting (kHz)	2.5, 5 (FM)			5 (FM)
Audio Response	Meets TIA-603-D Section 3.2.6			
Spurious and Harmonics (dBc)	< -75, FCC Part 90	< -70, FCC Part 90	< -75, FCC Part 90	< -75, FCC Part 90
FM Hum and Noise (dB @ 12.5 kHz)	45.0			
FM Hum and Noise (dB @ 25k Hz)	47.0			
Audio distortion (%)	< 1.0			
P25 Modulation Fidelity (%)	< 3.00			
Frequency Stability (ppm)	±1.5			
P25 Adjacent power (dBc)	> 67	> 67 @ 50 W (378-512 MHz) > 67 @ 25 W (512-522 MHz)	> 67	> 67
Channel spacing (kHz)	12.5, 25			12.5
Conducted emissions (dBc)	-75	-70	-75	-75
Radiated emissions	Meets TIA/EIA-603-D 3.2.12			

LMR RECEIVER				
Frequency Bands	VHF	UHF	700/800	900
Frequency Range (US)	136-174	378-522	768-776, 851-861	935-944
Frequency Range (Int'l)	136-174	378-522	763-776, 851-870	935-944
Channel spacing (kHz)	12.5, 25			12.5
Sensitivity (12 dB SINAD)	-119 dBm			
P25 sensitivity (5% BER)	-119 dBm			
Adjacent channel rejection @ 25 kHz (dB)	77	78	76	NA
Adjacent channel rejection @ 12.5 kHz (dB)	72	70	70	70
P25 Adjacent channel rejection @ 12.5 kHz (dB)	60	60	60	60
Intermodulation Distortion (dB)	77	78	75	75
FM Hum and Noise @ 12.5kHz (dB)	49	47	45	45
FM Hum and Noise @ 25 kHz (dB)	50	50	47	NA
Rated audio output	2 channels of 15W RMS into 4 Ohm			
Audio distortion	< 3.0% @ rated power			
Stability (ppm)	+/- 1.5			
Spurious Rejection (dB)	92	90	88 74 (771.3-772.3)	88
Selectivity (dB)	NA	NA	20 (NPSPAC Only)	NA

BROADBAND	
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
International LTE Option (In selected countries)	4G LTE Bands: B1, B3, B5, B7, B8, B28 3G Bands: B1, B5, B8
Wi-Fi	802.11ac 2.4 GHz and 5 GHz; supports up to 10 client devices
Bluetooth	Bluetooth 4.0 (128-bit encryption)

*Downlink only for Carrier Aggregation

ENVIRONMENTAL STANDARD			
Applicable 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	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
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), store up to 5 UKEs per radio
Encryption Keying	L3Harris Key Loader, P25 Conventional and Trunked Over-the-Air-Rekeying (OTAR) for respective UKEs

REGULATORY DATA

Frequency Range	RF Output (W)	Frequency Stability	FCC Type Acceptance ID	Applicable FCC Rule	Industry Canada ID	Applicable Industry Canada Rule
136-174	50		OWDTR-0161-E	90	3636B-0161	RSS-119
378-522	50		OWDTR-0161-E	90	3636B-0161	RSS-119
763 – 776, 793 - 806	30.0	0.1	OWDTR-0161-E	90	3636B-0161	RSS-119
806 - 825, 851 - 870	35.0	0.1	OWDTR-0161-E	90	3636B-0161	RSS-119
896-901	35.0	0.1	OWDTR-0161-E	90	3636B-0161	RSS-119
935-944	35.0	0.1	OWDTR-0161-E	90, 101	3636B-0161	RSS-119
Emissions 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

Keypad Mobile Microphone: Rugged handheld microphone with 12-button alphanumeric keypad, 5-way controller to provide the functions of the radio control head in the palm of the hand and noise cancellation

Desktop Cabinet: Supports desktop deployment of the XL Mobile Radio in front-mount, remote mount and control head only configurations

External speaker: Light, compact, and carefully tuned for the human voice, the XL-185M external speakers deliver loud and clear mission-critical voice in an easy-to-mount enclosure

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

XL-185M/XL-200M Single-band and Multiband P25 Mobile Radios

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