



4450 US Highway 1 Vero Beach, FL 32967 888.275.4244 | ask4ci.com

Authorized L3Harris Reseller

L3Harris XG-25M Mobile Radio

Choose from VHF, UHF or 700/800 MHz. The mobile 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.

VENDOR	BRAND/MODEL	MSRP
	L3HARRIS MOBILE RADIOS – XG-25M VHF	
Communications International	L3Harris / DM-MV1B - Mobile,XG-25M,136-174 MHz,50W	\$2,100.00
	FEATURES/OPTIONS/ACCESSORIES	
Communications International	L3Harris / DM-PL5K - FEATURE,PROFILE OTAP	\$265.00
Communications International	L3Harris / DM-PL5L - FEATURE,P25 OVER-THE-AIR REKEYING	\$465.00
Communications International	L3Harris / DM-PL7Z - Feature,512 Systems/Groups	\$0.01
Communications International	L3Harris / DM-PL4F - Feature, P25 Phase 2, TDMA	\$250.00
Communications International	L3Harris / DM-PL8Y - FEATURE, ENCRYPTION LITE	\$0.01
Communications International	L3Harris / DM-PL9E - FEATURE, SINGLE-KEY AES ENCRYPTION	\$0.01
Communications International	L3Harris / DM-PL4U - Feature, Single-Key DES Encryption	\$0.01
	L3Harris / DM-P25ED - FEATURE PACKAGE,P25 TRUNKING &	
Communications International	EDACS	\$1,200.00
Communications International	L3Harris / DM-ZN9X - Kit, Accessories, XG-25M	\$195.00
Communications International	L3Harris / DM-MC9R - Microphone, Standard, XG-25M	\$80.94
Communications International	L3Harris / AN-225002-001 - Antenna, Element, 1/4, 0dB, VHF	\$140.00
	L3Harris / AN-125001-001 - Antenna, Base, Standard Roof	
Communications International	Mount	\$40.00

VENDOR	BRAND/MODEL	
	L3HARRIS MOBILE RADIOS – XG-25M UHF	
Communications International	L3Harris / DM-MU1B - MOBILE,XG-25M,378-470 MHZ,50W	\$2,100.00
	FEATURES/OPTIONS/ACCESSORIES	
Communications International	L3Harris / DM-PL7Z - Feature,512 Systems/Groups	\$0.01
Communications International	L3Harris / DM-PL4F - Feature, P25 Phase 2, TDMA	\$0.01
Communications International	L3Harris / DM-PL9E - FEATURE, SINGLE-KEY AES ENCRYPTION	\$0.01
Communications International	L3Harris / DM-PL4U - Feature, Single-Key DES Encryption	\$0.01
Communications International	L3Harris / DM-PKGPT - Feature Package,P25 Trunking	\$195.00
Communications International	L3Harris / DM-ZN9X - Kit, Accessories, XG-25M	\$60.00
Communications International	L3Harris / AN-225003-001 - Antenna, Element, 1/4, 0dB, UHF-L	\$80.00
Communications International	L3Harris / AN-125001-001 - Antenna, Base, Standard Roof Mount	\$40.00





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VENDOR	BRAND/MODEL	
	L3HARRIS MOBILE RADIOS – XG-25M 700/800 MHz	
Communications International	L3Harris / DM-M78B - MOBILE,XG-25M,700/800 MHZ,35W	\$2,100.00
	FEATURES/OPTIONS/ACCESSORIES	
Communications International	L3Harris / DM-PL7Z - Feature,512 Systems/Groups	\$0.01
Communications International	L3Harris / DM-PL9E - FEATURE, SINGLE-KEY AES ENCRYPTION	\$0.01
Communications International	L3Harris / DM-PL4U - Feature, Single-Key DES Encryption	\$0.01
	L3Harris / DM-ZN9Z - KIT, CONVERSION, CH-25 REM CTRL HD,	
Communications International	30FT	\$0.01
Communications International	L3Harris / DM-ZN9X - Kit, Accessories, XG-25M	\$195.00
	L3Harris / AN-225001-004 - Antenna, Element, 700/800 2dB Low	
Communications International	ProFile	\$60.00
	L3Harris / AN-125001-002 - Antenna, Base, Standard Roof Mnt	
Communications International	Low Loss	\$80.00
Communications International	L3Harris / DM-CL2Y - Cable, Programming XG-25M	\$90.00



XG-25M MOBILE

VHF, UHF, 700/800 MHz

The economical and feature-rich L3Harris XG-25M Mobile delivers exceptional audio and secure, reliable mission-critical communications. This P25 Phase 2 capable mobile is an ideal choice for first responders and utilities who want just one radio to manage their migration needs.



Designed for use on P25 and L3Harris legacy platforms, the XG-25M also supports EDACS®, ProVoice™ and OpenSky® systems. This flexible solution supports wideband and narrowband channels and has a software-defined architecture for in-field upgrades to additional modes including P25 trunking.

An oversized speaker and AMBE+2™ vocoder provide loud, clear audio without distortion in a wide range of emergency scenarios.

The ruggedized XG-25M exceeds durability tests, holding both a MIL-STD-810G certification and IP54 rating for protection against dust and splashing water.

An oversized front-mount control unit display and large, easy-to-read buttons simplifies the XG-25M user experience. Bluetooth® supports seamless connectivity through a variety of accessories. Standard security capabilities include choice of single-key AES or DES.



MULTIMODE INTEROPERABLE COMMUNICATIONS

KEY BENEFITS

- > Economical choice for P25 Phase 2 migration
- Supports wideband and narrowband communications
- > Future-ready, softwaredefined architecture
- > Loud, clear audio without distortion
- > Ruggedized to MIL-STD-810G and IP54 standards

SPECIFICATIONS FOR: XG-25M MOBILE RADIO-VHF, UHF, 700/800 MHZ

GENERAL	
Dimensions (includes knobs but not space for mounting bracket and cables)	2.8 H x 7.24 W x 7.9 D in (7.1 H x 18.4 W x 20.0 D cm)
Weight (without brackets)	5.9 lbs (2.6 kg)
Environmental Specifications	
Relative Humidity	90% @ 122°F (+50°C)
Operating Temperature	-22° to +140°F (-30° to +60°C)
Storage Temperature	-40° to +176°F (-40° to +80°C)
Altitude Operational In Transit	15,000 ft (4,572 m) 50,000 ft (15,240 m)
Electrical	
DC Supply Voltage Operating Range Full Performance Overall Operating Range	13.6 VDC ± 10% (normal range per TIA-603) 13.6 VDC ± 20%
DC Supply Current Requirements Transmit (50 W) Receive Standby Receive	15 amps maximum 1.4 amps maximum 4.0 amps maximum (with 15 W external speaker output power)
Safety	
RoHS Compliant	
Programming	
Field PC Programmable	

TRANSMITTER			
Typical Performance Specifications	VHF	UHF	700 / 800 MHz
Frequency Ranges (MHz)	136-174	378-430	764-776, 794-805, 806-825, 851-870
Rated RF Power (W)	50	50	30-35
Frequency Stability (-30°C to + 60°C, +25°C Ref) (ppm)	±1.5	±1.5	±1.5
Frequency Separation (MHz)	38 (full bandwidth)	92 (full bandwidth)	NA
Modulation Deviation (kHz)	5.0 (wideband*) 2.5 (narrowband)	5.0 (wideband*) 2.5 (narrowband)	2.5, 4 or 5 FM
FM Hum and Noise Companion Receiver (dB)	49 (wideband*) 45 (narrowband)	49 (wideband*) 45 (narrowband)	49 (wideband*) 45 (narrowband) 49 (NPSPAC)
Spurious and Harmonics (dBm/dBc)	-43 / -90	-47 / -94	-52 / -97
Audio Response (dB)	Meets TIA-603-C Section 3.2.6	Meets TIA-603-C Section 3.2.6	Meets TIA-603-C Section 3.2.6
Audio Distortion (1 kHz tone) @ 3 kHz deviation @ 2.4 kHz deviation @ 1.5 kHz deviation	1% (wideband*) NA 1% (narrowband)	1% (wideband*) NA 1% (narrowband)	1% (800 MHz non-NPSPAC)) 1% (800 MHz NPSPAC) 1% (700 MHz
Project 25 Modulation Fidelity (%)	<5	<5	<5
Project 25 Adjacent Channel Power (dBc)	>67	>67	>67

 $^{^{*}\}text{VHF}$ and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

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	NTIA Certification Number
136-174	50	±1.5	OWDTR-0075-E	22, 80, 90	3636B-0075	RSS-119, RSS-210	J/F 12/10037
378-470	50	±1.5	OWDTR-0077-E	22, 80, 90	3636B-0077	RSS-119, RSS-210	NA
769-869	35	±1.5	OWDTR-0076-E	90	3636B-0076	RSS-119, RSS-210	NA

SPECIFICATIONS FOR: XG-25M MOBILE RADIO-VHF, UHF, 700/800 MHZ

RECEIVER			
Typical Performance Specifications	VHF	UHF	700 / 800 MHz
Frequency Range (MHz)	136-174	378-470	764-776, 851-870
Frequency Separation (MHz)	38 (full bandwidth)	92 (full bandwidth)	NA
Channel Spacing (kHz)	25 (wideband*) 12.5 (narrowband)	25 (wideband*) 12.5 (narrowband)	25 (wideband*) 12.5 (narrowband)
Frequency Stability (-30°C to +60°C, +25°C Ref) (ppm)	±1.5	±1.5	±1.5
Sensitivity (12 dB SINAD) (μV / dBm)	0.25/-119.0 (wideband*) 0.25/-119.0 (narrowband*)	0.25/-119.0 (wideband*) 0.25/-119.0 (narrowband*)	0.19/-121.5 (700 MHz) 0.19/-121.5 (800 MHz NPSPAC) 0.19/-121.5 (800 MHz non-NPSPAC)
Selectivity @ 12.5 kHz (dB) @ 15 kHz (dB) @ 25 kHz (dB)	60 60 75	60 60 75	60 60 75
Intermodulation (dB)	>77	>77	>77
Spurious and Image Rejection (dB)	>80	>80	>80
Rated Audio Output Internal Speaker Optional External Speaker	8 ohm rated at 3 W 4 ohm rated at 15 W	8 ohm rated at 3 W 4 ohm rated at 15 W	8 ohm rated at 3 W 4 ohm rated at 15 W
Audio Distortion @ Rated Audio	<3%	<3%	<3%
Project 25 Reference Sensitivity @ 5% BER (μV / dBm)	0.22/-120	0.25/-119	0.22/-120
Project 25 Adjacent Channel Rejection (dB)	>60	>60	>60

 $^{^\}star \text{VHF}$ and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

ENVIRONMENTAL STANDARD			
Applicable MIL-STD	Parameter	Methods	Procedure / Categories
MIL-STD-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	509.5	1
	Blowing dust	510.5	1
	Vibration (minimum integrity)	514.6	1, Category 4
	Vibration (basic transportation)	514.6	1, Category 24
	Shock (functional/basic)	516.6	1
	Shock (transit drop)	516.6	4
TIA-603-C	Vibration stability	Paragraph 2.3.4 and 3.3.4	
U.S. Forest Service	Vibration (10-60 Hz)	Paragraph 2.15	
IEC 60529	Dust tight and water jets	IP54	

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

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	Phase 1: 9.6 Phase 2: 12
Modulation	GFSK	Phase 1 TX: C4FM, RX: C4FM & WCQPSK Phase 2 Control Channel TX: C4FM, RX: C4FM & WCQPSK Phase 2 Working Channel TX: HCPM, RX: HDQPSK

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 (64 AES, 64 DES)

 $[\]hbox{^*Interoperates with commonly available ARC4 encryption algorithms.}\\$

SPECIFICATIONS FOR: XG-25M MOBILE RADIO-VHF, UHF, 700/800 MHZ

ACCESSORIES

The XG-25M offers accessories that operate under the range of conditions experienced by first responders, utility workers and public service users.

Control Units

The XG-25M comes standard with a CH-25 front-mount control unit. A conversion kit is available for remote mounting. The control unit is a Scan (limited keypad) model with a 4-line, 12-character alphanumeric display. The unit supports P25, 800 MHz EDACS and ProVoice, and OpenSky trunking operation.



CH-25 Control Unit

Microphones

Harris offers a standard microphone and a desktop microphone for use with the XG-25M. These microphones provide the high-quality audio needed by users to keep operations efficient.







Desktop Microphone

Additional Accessories Available

Antennas, front-mounting kit, bracket, PC programming software and cables are available

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

XG-25M Mobile

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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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