



EXCEPTIONAL COMMUNICATIONS IN SEVERE CONDITIONS

FEATURES

Instant recall of received audio replays received transmissions to avoid missed calls.

Wi-Fi® connectivity allows voice delivery outside the radio coverage area using the Harris BeOn® application. Also, the optional cell modem provides voice and data wherever cellular/LTE is available.

Built-in GPS, Bluetooth®, Active Noise Cancellation, and 4-position A-B-C-D switch standard.

Unique user interface with two displays and innovative features such as Visual Zone identification (color coding of talkgroups) to make radio operation simple and intuitive.

XL-200P PORTABLE FULL-SPECTRUM MULTIBAND

The XL-200P is Harris' second generation full-spectrum radio. Every radio is capable of operating on VHF, UHF, and 700/800 MHz frequencies, as well as providing voice and data over LTE broadband. Users may purchase the portable as single band, dual band, or full spectrum, and upgrade to add bands or LTE in the future.

DESIGNED FROM THE GROUND UP TO CONVERGE VOICE AND DATA

Designed with input from mission-critical users, the XL-200P is an entirely new radio platform – processor, memory, and software – that merges robust LMR voice with unique-in-the-industry voice and data over cellular/LTE/Wi-Fi to provide leading-edge connectivity.

AUDIO EXCELLENCE

The new design pairs a powerful 1.5W audio amplifier with woofer and tweeter speakers (with resonant cavities and tuned ports) to conquer noise and deliver industry-leading clear and intelligible audio.

COMPACT AND ERGONOMIC ALL BAND + LTE RADIO

The shape of the XL-200P was based on extensive human factors research to create a radio that nestles naturally in users' hands. Controls are shaped and arranged for ease of use and optimum performance, including accessory connections.

TOUGH MECHANICAL PACKAGE

With a rugged cast aluminum frame and tough seals, the XL-200P is constructed to operate in severe environments. This radio meets MIL-STD-810G for durability, including Method 511.5 for explosive atmospheres and Method 504.1 for contamination by fluids, so the radio can be scrubbed with cleansers and biological sanitizers.

GENERAL SPECIFICATIONS

Radio Models

Full Keypad: TFT LCD w/DTMF keypad, Nav cluster, Soft Keys
Partial Keypad: TFT LCD w/partial keypad, Nav cluster, Soft Keys

Dimensions (Without Knobs and Antenna)

	Inches (w/Battery)	Millimeters (w/Battery)
Height:	5.8	148
Width:	2.3	60
Depth:	1.4	36

Weight

	Ounces (w/o Bat & Ant)	Ounces (w/Bat & Ant)	Grams (w/o Bat & Ant)	Grams (w/Bat & Ant)
Radio:	10.4	16.2	296	464

Housing Colors

Midnight Black High-Visibility Yellow

Interfaces

Front Display: 320 x 178 pixels, 1.8 in. transfective LCD, 16-bit color with backlight
Top Display: 128 x 32 pixels, 1.1 in. multi-color backlight, sunlight readable
Keypad: Backlight, 3 soft keys, 5-way navigation key, 4 x 3 keypad
Buttons: 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
Tx/Rx Indicator: Multi-colored LEDs

Transceiver

Supported Bands: VHF & UHF & 700/800 MHz & LTE
Channel Capacity: 12,500 (1,250 per mission plan)

Environmental Specifications

Relative Humidity: 5% @ 140°F (+60°C), 95% @ 122°F (+50°C)
Vibration: USDA LMR Standard, Section 2.15 & MIL-STD-810G, Test Method 514.6
Drop Shock: 1.0 meter drop to concrete (exceeds TIA-603-D)
Immersion*: 2 meters for 4 hours in accordance with MIL-STD-810G/IP68
 *Optional feature

Operating Temperature*: -22 to +140 °F -30 to +60 °C
 *Extreme low temperatures adversely affect battery life

Storage Temperature*: -40 to +176 °F -40 to +80 °C
 *Store batteries at +25°C ± 5°C

Altitude Operational: 15,000 Feet 4,572 Meters
In Transit: 50,000 Feet 15,240 Meters

Electrical

Input Voltage: 7.5 VDC (nominal)

GPS/GNSS Specifications

Channels: 52
Tracking Sensitivity: -166 dBm (GPS) -163 dBm (GLONASS)
Acquisition Sensitivity: -146 dBm (GPS)
Cold Start w/-130 dBm input: <35 seconds
Hot Start w/-130 dBm input: <1 second

Safety

Hazardous Location Options: Approved for use in the U.S. and Canada in Class I, Division 2, Groups A, B, C, and D hazardous locations

RoHS compliant

LMR TRANSMITTER

Typical Performance Specifications

Frequency Range (MHz) Option 1 (U.S.):
Option 2 (International):
Rated RF Power (W):
Rated RF Power Talkaround (W):
Frequency Stability (-30 to +60°C) (ppm):
Modulation Limiting (kHz):
Audio Response (dB):
Spurious and Harmonics (dBC):
FM Hum and Noise@25 kHz (dB):
 @12.5 kHz (dB):
Audio Distortion (%):
Project 25 Modulation Fidelity (%):
Project 25 Adjacent Channel Power (dBC):

Full-Spectrum Multiband*

136-174, 378-522, 768-776, 798-806, 806-816, 851-861
 136-174, 378-522, 763-776, 793-806, 806-825, 851-870**
 VHF: 1-6, UHF: 1-5, 700/800: 0.5-3
 VHF: 1-6, UHF: 1-5, 700/800: 0.5-3
 ±1.0
 2.5, 4, 5 (FM)
 +1/-3
 -80, FCC Part 90
 VHF: 70, UHF: 60, 700/800: 55
 VHF: 47, UHF: 47, 700/800: 45
 <1.25
 1.0
 >71

*VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz.

**Future option

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	6.0	±1.0	OWDTR-0133-E	22, 74, 80, 90	3636B-0133	RSS-119	TBD
378-522	5.0	±1.0	OWDTR-0133-E	22, 74, 80, 90	3636B-0133	RSS-119	TBD
768-776	3.0	±1.0	OWDTR-0133-E	90	3636B-0133	RSS-119	TBD
798-806	3.0	±1.0	OWDTR-0133-E	90	3636B-0133	RSS-119	TBD
806-816	3.0	±1.0	OWDTR-0133-E	90	3636B-0133	RSS-119	TBD
851-861	3.0	±1.0	OWDTR-0133-E	90	3636B-0133	RSS-119	TBD
2402-2480	0.2	TBD	OWDTR-0133-E	15	3636B-0133	RSS-119	TBD
5180-5825	0.1	TBD	OWDTR-0133-E	15	3636B-0133	RSS-119	TBD

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

LMR RECEIVER

Typical Performance Specifications

Frequency Range (MHz)	Option 1 (U.S.): Option 2 (International):	136-174, 378-522, 768-776, 851-861 136-174, 378-522, 763-776, 851-870**
Channel Spacing (kHz):		25 (wideband*), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)
Frequency Stability (-30 to +60°C) (ppm):		±1.0
Sensitivity (12 dB SINAD) (dBm):		VHF: -122, UHF:-121, 700: -121, 800: 120
Project 25 Reference Sensitivity @ 5% BER (dBm):		VHF: -122, UHF:-121, 700/800: -120.5
Analog Selectivity @ 25 kHz (dB):		VHF: 77, UHF: 77, 700/800: 74
@ 12.5 kHz (dB):		VHF: 71, UHF: 70, 700/800: 64
P25 Adjacent Channel Rejection @ 12.5 kHz (dB):		VHF: 66.2, UHF: 62.2, 700/800: 62.0
Intermodulation (dB):		VHF: 80, UHF: 81, 700/800: 78
Spurious and Image Rejection (dB):		VHF: 90, UHF: 87, 700: 84, 800: 80
FM Hum and Noise @ 25 kHz (dB):		VHF: -60, UHF: -60, 700/800: -55
@12.5 kHz (dB):		VHF: -55, UHF: -53, 700/800: -50
Rated/Max. Audio Output (mW):		1500/4000
Audio Distortion:		1.1% @ rated power

*VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz.

**Future option

ENVIRONMENTAL STANDARDS

Standard	Parameter	Methods	Procedures/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
	Solar Radiation	505.5	1
	Contamination by Fluids	504.1	2
	Blowing Rain	506.5	1
	Humidity	507.5	2
	Salt Fog	509.5	1
	Blowing Dust & Sand	510.5	1,2
	Explosive Atmosphere	511.5	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
Shock (Bench Handling)	516.6	6	
IEC 60529	Dust-tight, Continuous Immersion**	IP68	

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

**Optional feature.

CELLULAR BROADBAND

LTE Protocol:	3GPP Release 9, Power Class 3 UE with RX diversity
Public Safety Broadband:	Band 14, 788-798 MHz TX, 758-768 MHz RX, 5 or 10 MHz BW*
Commercial Broadband:	Band 13, 777-787 MHz TX, 746-756 MHz RX, 5 or 10 MHz BW*
Commercial Broadband:	Band 4, 1710-1755 MHz TX, 2110-2155 MHz RX, 5, 10, 15, or 20 MHz BW*
Wi-Fi:	802.11b/g/n 2.4 GHz & 5 GHz
Bluetooth:	Bluetooth 4.0

*Future option

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

*Future option

ENCRYPTION

Encryption Algorithms:	AES, DES-OFB
Encryption Keys per Radio:	Capable of storing 128 keys (64 AES, 64 DES)
Keying:	Harris Key Loader, Over-the-Air Rekeying (OTAR), Motorola KVL 3000+/4000
Standards:	FIPS 140-2, FIPS 197

BATTERIES

Type	Dimensions (L x W x D)	Weight	Capacity (mAh)
Li-Ion	3.0 x 2.3 x 0.9 in.	4.8 oz (136g)	3100

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ACCESSORIES

The XL-200P is available with a selection of dependable Harris accessories that operate in a range of environments. Several are shown below.

Headsets

The XL-200P can be used with a wide variety of headsets and covert audio accessories to provide a complete user-gear solution for public safety, utility, and transportation markets. Heavy-duty and lightweight headsets are available with in-ear or over-the-ear hearing protection, flexible boom microphones with noise-reduction technology, and standard or remote PTTs. In addition, the XL-200P can be used with Skull Headsets and Throat Microphone/Headset Kits. Covert audio kits are available in black or beige, and in 2-wire or 3-wire configurations with earpiece, microphone, and PTT.



Tactical Headset



3-Wire Mini-Lapel Microphone

Carrying Cases

Harris offers a versatile line of carrying cases for the XL-200P full-duplex, VHF/UHF, and L-band radio. Options include a standard belt clip and premium leather carrying case, both of which afford the radio user a low-profile, integrated carrying option. In addition, a premium leather holster is available for attaching to a belt or wearing with the premium leather shoulder strap.



Belt Clip



Leather Carrying Case

Chargers

Harris offers a variety of chargers for the XL-200P: 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.



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.

About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately \$8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

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