



XL-200P Portable Full-Spectrum Multiband

EXCEPTIONAL COMMUNICATIONS IN SEVERE CONDITIONS

XL-200P: The Rugged and Powerful Solution for First Responder Communications



Limited Keypad Full Keypad

HARRIS®
assuredcommunications®

Designed with input from mission-critical users, the XL-200P was developed to provide the advanced connectivity first responders require while addressing evolving voice and data communications. All XL-200P radios support VHF, UHF, and 700/800 MHz frequencies as well as LTE broadband, and allow voice and data communications across agencies using multiple frequencies and systems.

The portable delivers easy-to-use tools in an extremely rugged radio that operates under the most adverse conditions. The XL-200P meets MIL-STD-810G for durability and is certified to more stringent MIL-STD parameters for contamination by fluids and explosive atmospheres. Unique in the industry, the radio is also certified as being safe to clean with many cleansers and biological sanitizers.

Standard features found on the XL-200P include:

- > Extremely Rugged – exceeds the standards of other radios on the market
- > Multiband Operation – supports any combination of VHF, UHF, and 700/800 MHz frequencies. Also allows different bands to be enabled for selected users.
- > Single-key DES Encryption – provides secure communication
- > Instant Recall of Received Audio – allows user to replay the last transmission received to avoid unnecessary repetition
- > Active Noise Cancellation – with three internal microphones to transmit intelligible audio from users in loud environments
- > Built-in GPS – for location reporting and rapid response for emergencies
- > Bluetooth® – for wireless interface to selected accessories and programming
- > Wi-Fi Connectivity – permits simple and easy radio software updates
- > Unique User Interface – tools specially designed by first responders make radio operation simple and intuitive. An easy-to-read multi-color front display and a monochromatic top display enhance communications for improved user safety

Optional features for the XL-200P include:

- > LTE Broadband – upgrade for faster performance and improved data reliability on the nationwide LTE network, permitting increased productivity
- > IP68 certification for immersion (achieved even after drop tests)
- > FIPS certification for increased security of encrypted communications

Available in both full and limited keypad models in black and high-visibility yellow, the XL-200P offers a full complement of accessories designed to operate in the severe environments experienced by first responders.

GENERAL SPECIFICATIONS

Dimensions (H x W x D):

(Without Knobs and Antenna)

With battery:

5.8 x 2.3 x 1.4 in.

(148 x 60 x 36 mm)

Approximate Weight (With Battery):

<22.5 oz (638g)

Input Voltage: 7.2 VDC (nominal)

Immersion:

2 meters for 4 hours in accordance with MIL-STD-810G/IP68

Battery Life (at 5% Tx, 5% RX, and

90% standby): Lithium: 12 hours

Operating Temperature Range*:

-22 to +140°F (-30 to +60°C)

*Radio temperature ranges are shown. Batteries should be stored at +25°C ± 5°C

Relative Humidity: Per MIL-STD-810G

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/Switches:

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-color LED

Channel Capacity:

12,500 (1,250 per mission plan)

Options and Accessories:

Speaker microphones, surveillance accessories, chargers, and cases

Hazardous Location Options:

Applied for certification for use in Class I, Division 2, Groups A, B, C, D; Class II, Groups E, F, G; and Class III designated locations

RoHS compliant



Public Safety and Professional Communications
221 Jefferson Ridge Parkway
Lynchburg, VA 24501 USA

1-800-368-3277 (+1-434-455-6403)

www.pspc.harris.com

RUGGED DESIGN FOR HARSH ENVIRONMENTS

TRANSMITTER

TYPICAL PERFORMANCE SPECIFICATIONS

Frequency Range (MHz):

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):

Emission Designators:

FULL-SPECTRUM MULTIBAND*

136-174 (VHF), 378-522 (UHF), 762-861, 806-824 (700/800), 806-862 (700/800 in U.S.), or 806-870 (700/800 world ready)

VHF: 1-6, UHF: 1-5, 700/800: 0.5-3

VHF: 1-6, UHF: 1-5, 700/800: 0.5-3

±0.5

2.5, 4, 5 (FM)

+1/-3

-70, FCC Part 90

VHF: -51, UHF: -54, 700/800: -50

VHF: -45, UHF: -47, 700/800: -44

<1.25

<1.00

>67

16K0F3E, 16K0F1D/E, 14K0F3E, 14K0F1D/E, 11K0F3E, 11K7F1D/E, 7K10F1D/E, 15K4F9W, 12K1F9W, 8K40F9W, 8K40F1D/E, 8K10DXW

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

RECEIVER

TYPICAL PERFORMANCE SPECIFICATIONS

Frequency Range (MHz):

Channel Spacing (kHz):

Sensitivity (12 dB SINAD) (dBm):

Project 25 Reference Sensitivity @ 5% BER (dBm):

Adjacent Channel Rejection @ 25 kHz (dB):

P25 Adjacent Channel Rejection @ 12.5 kHz (dB):

Intermodulation (dB):

Spurious and Image Rejection (dB):

FM Hum and Noise @ 25 kHz (dB):

@ 12.5 kHz (dB):

Rated/Max. Audio Output (mW):

Audio Distortion:

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

FULL-SPECTRUM MULTIBAND*

136-174 (VHF), 378-522 (UHF), 762-776, 851-870 (700/800)

25 (wideband*), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)

VHF: -121.1, UHF: -123.0, 700/800: -121.4

VHF: -121.0, UHF: -122.9, 700/800: -121.4

VHF: 77.8, UHF: 73.7, 700/800: 72.7

VHF: 66.2, UHF: 62.2, 700/800: 62.0

VHF: 74.3, UHF: 78.8, 700/800: 78.5

VHF: 70, UHF: 75, 700/800: 70

VHF: -54.8, UHF: -49.1, 700/800: -48.2

VHF: -53.8, UHF: -43.7, 700/800: -42.8

1500/5500

1.1% @ rated power

ENVIRONMENTAL SPECIFICATIONS

STANDARD

MIL-STD-810G*

PARAMETER

Low Pressure

High Temperature

Low Temperature

Temperature Shock

Solar Radiation

Contamination by Fluids

Blowing Rain

Humidity

Salt Fog

Blowing Dust & Sand

Explosive Atmosphere

Immersion

Vibration (Minimum Integrity)

Vibration (Basic Transportation)

Shock (Functional/Basic)

Shock (Transit Drop)

Shock (Bench Handling)

IEEE

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

METHODS & PROCEDURES

500.5/1,2

501.5/1,2

502.5/1,2

503.5/1

505.5/1

504.1/2

506.5/1

507.5/2

509.5/1

510.5/1,2

511.5/1

512.5/1

514.6/1, Category 24

514.6/1, Category 4

516.6/1

516.6/4

516.6/6

802.11b/g/n

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

Emission Designators:

4M50W7W, 8M95W7W, 13M5W7W, 18M0W7W

DIGITAL OPERATION

PROTOCOL

Signaling Rate (kbps):

Modulation:

PROVOICE™**

9.6

GFSK

P25

9.6

Phase1 TX: C4FM, RX: C4FM & WCQPSK

Phase 2 TX: HCPCM, RX: WCQPSK

*Future option

REGULATORY SPECIFICATIONS

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	±1.5	TBD*	90	TBD	TBD	TBD
378-522	5.0	±1.5	TBD*	90	TBD	TBD	TBD
794-824	3.0	±1.5	TBD*	90	TBD	TBD	TBD
788-798	0.2	per § 27.54	TBD	90	TBD	TBD	TBD
777-787	0.2	per § 27.54	TBD	27	TBD	TBD	TBD
1710-1755	0.2	per § 27.54	TBD	27	TBD	TBD	TBD
2412-2472	0.1**	TBD	TBD	15	TBD	TBD	TBD
5180-5825	0.1**	TBD	TBD	15	TBD	TBD	TBD

*To be provided upon receipt of FCC type approvals. This equipment is subject to the FCC rules. The equipment will comply with the appropriate rules before delivery to the buyer.

This device is not, and may not be, offered for sale or lease, or sold or leased, until the approval of the FCC has been obtained.

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

**Value is estimated maximum RF power output – authorized RF output power will be provided once FCC grant is received.