



L3HARRIS®
FAST. FORWARD.



XL CONVERGE™ 185P

Converged LTE Land Mobile Radio

The XL Converge 185P radio offers audio and data capabilities on nationwide broadband networks to enhance situational awareness and keep you connected.

The XL 185P is a rugged and reliable portable designed for public safety and utility workers. It provides loud audio with advanced noise cancellation technology for clear communication in any environment. Its design exceeds MIL-SPEC durability including drop testing, resistance to explosive atmospheres and fluid contamination. It's also easy to clean, making it ideal for use in challenging environments.

RELENTLESSLY RELIABLE

XL Radios run on systems that double down on redundancy, champion open networks and connect seamlessly with all P25-compliant organizations.

POINT-TO-POINT SECURE

Our AES-256 encryption provides an end-to-end secure configuration, keeping you safe from threats.

BACKED WITH ALL-IN, 24/7 SUPPORT

Our service packages keep your radios up and running with in-field preventative maintenance and software upgrades.

Key Benefits:

- > Dual SIM LTE operation over multiple commercial and private networks
- > Capable of operating on VHF, UHF, 700/800 or 900 MHz frequencies for flexibility and wide-ranging connectivity
- > Advanced noise cancellation technology
- > Ruggedized to meet stringent MIL-STD 810G standards
- > Built-in Wi-Fi, Bluetooth® and GPS
- > Secure voice and data encryption
- > Intuitive and easy to use

SPECIFICATIONS FOR XL CONVERGE 185P PORTABLE RADIO

| GENERAL | | | |
|---|---|--|---|
| Radio Models: Full Keypad Partial Keypad | TFT LCD w/DTMF keypad, navigation cluster, soft keys TFT LCD w/partial keypad, navigation cluster, soft keys | | |
| Dimensions w/Battery (H x W x D) | 5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm) | | |
| Weight | w/ Battery, Antenna and LTE Modem 18.2 oz (516 g) | w/Battery and Antenna 16.2 oz (464 g) | w/o Battery and Antenna 10.4 oz (296 g) |
| Housing Colors | Midnight Black, High-Visibility Yellow and High-Visibility Green | | |
| Interfaces: Front Display Top Display Keypad Buttons Tx/Rx Indicator | 320 x 178 pixels, 1.8 inch transreflective LCD, 16-bit color with backlight 128 x 32 pixels, OLED 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad 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 Multi-colored LEDs | | |
| Channel/Talkgroup Capacity | 1,250 total conventional channels and 13,824 total talkgroups | | |
| Radio Programming | Firmware, personalities and feature set over Wi-Fi or LTE | | |
| Transceiver | Supported Bands VHF, UHF, 700/800 MHz or 900 MHz and LTE (optional) | Channel Capacity (12,500 per mission plan) | |
| Environmental: Relative Humidity Vibration Drop Shock Immersion ¹ | 5% @ 140°F (+60°C), 95% @ 122°F (+50°C) TIA-603-D (PAR 2.3.4 and 3.3.4) and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) 2 meters for 4 hours in accordance with MIL-STD-810G/IP68 | | |
| Operating Temperature² | -22° to +140°F (-30° to +60°C) | | |
| Storage Temperature³ | -40° to +176°F (-40° to +80°C) | | |
| Altitude | Operational 15,000 feet (4,572 meters) | In Transit 40,000 feet (12,192 meters) | |
| Electrical Input Voltage | 7.5 VDC (nominal) | | |
| GPS/GNSS Specifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input | P25 standard Tier 2 and L3Harris In-Band GPS 52 -166 (GPS), -163 (GLONASS) -146 (GPS) <35 seconds <1 second | | |
| Safety: Hazardous Location Options RoHS Compliant | | | |

¹ Optional feature ² Extreme low temperatures adversely affect battery life ³ Store batteries at +25°C ± 5°C

| LMR TRANSMITTER | | | | |
|--|-------------------|-------------------|------------------------------------|-------------------|
| Frequency Bands | VHF | UHF | 700/800 MHz | 900 MHz* |
| Frequency Ranges (MHz) Option 1 (US) | 136-174 | 378-522 | 768-776, 798-806, 806-816, 851-861 | 896-902, 935-944 |
| Option 2 (International) | 136-174 | 378-522 | 763-776, 793-806, 806-825, 851-870 | 896-902, 935-944 |
| Rated RF Power/Talkaround (W) | 1-6 | 1-5 | 0.5-3 | 0.5-3.5 |
| Frequency Stability (-30 to +60°C) | ±1.0 ppm | ±1.0ppm | ±1.0 ppm | ±1.0 ppm |
| Modulation Limiting (kHz) | 2.5, 4, 5 (FM) | 2.5, 4, 5 (FM) | 2.5, 4, 5 (FM) | 2.5, 4, 5 (FM) |
| Audio Response (dB) | +1/-3 | +1/-3 | +1/-3 | +1/-3 |
| Spurious and Harmonics (dBc) | -80 (FCC Part 90) | -80 (FCC Part 90) | -80 (FCC Part 90) | -80 (FCC Part 90) |
| FM Hum and Noise Companion Receiver (dB): @ 25 kHz @ 12.5 kHz | -70 -47 | -60 -47 | -55 -45 | -55 -45 |
| Audio Distortion (%) | <1.25 | <1.25 | <1.25 | <1.25 |
| Project 25 Modulation Fidelity (%) | 1.0 | 1.0 | 1.0 | 1.0 |
| Project 25 Adjacent Channel Power (dBc) | >71 | >71 | >71 | >70 |

*Configurations supporting the three (3) 700, 800 and 900 MHz frequency bands do not support 768-776 MHz/763-776 MHz talkaround

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| REGULATORY DATA | | | | | | | |
|-----------------|-----------|---------------------|----------------------------|----------------------|-----------------------------------|----------------------------------|----------------|
| Frequency Range | RF Output | Frequency Stability | FCC Type Acceptance No. | Applicable FCC Rules | Industry Canada Certification No. | Applicable Industry Canada Rules | NTIA Cert. No. |
| 136 - 174 MHz | 6 W | ±1.0 ppm | OWDTR-0133-E | 22, 74, 80, 90 | 3636B-0133 | RSS-119 | SPS-217 49/1 |
| 378 - 522 MHz | 5 W | ±1.0 ppm | OWDTR-0133-E | 22, 74, 80, 91 | 3636B-0133 | RSS-119 | SPS-217 49/1 |
| 768 - 776 MHz | 3 W | ±1.0 ppm | OWDTR-0133-E | 90 | 3636B-0133 | RSS-119 | |
| 798 - 806 MHz | 3 W | ±1.0 ppm | OWDTR-0133-E | 90 | 3636B-0133 | RSS-119 | |
| 806 - 816 MHz | 3 W | ±1.0 ppm | OWDTR-0133-E | 90 | 3636B-0133 | RSS-119 | |
| 806 - 825 MHz | 3 W | ±1.0 ppm | OWDTR-0145-E | 90 | 3636B-0145 | RSS-119 | |
| 851 - 861 MHz | 3 W | ±1.0 ppm | OWDTR-0133-E | 90 | 3636B-0133 | RSS-119 | |
| 851 - 869 MHz | 3 W | ±1.0 ppm | OWDTR-0145-E | 90 | 3636B-0145 | RSS-119 | |
| 896 - 901 MHz | 3 W | ±1.0 ppm | OWDTR-0143-E | 90, 24D, 101 | 3636B-0143 | RSS-119 | |
| 901 - 902 MHz | 3 W | ±1.0 ppm | OWDTR-0143-E | 90, 24D, 101 | 3636B-0143 | RSS-119 | |
| 940 - 941 MHz | 3 W | ±1.0 ppm | OWDTR-0143-E | 90, 24D, 101 | 3636B-0143 | RSS-119 | |
| 935 - 940 MHz | 3 W | ±1.0 ppm | OWDTR-0143-E | 90, 24D, 101 | 3636B-0143 | RSS-119 | |
| 941 - 944 MHz | 3 W | ±1.0 ppm | OWDTR-0143-E | 90, 24D, 101 | 3636B-0143 | RSS-119 | |
| 2402 - 2460 MHz | 0.2W | N/A | OWDTR-0133-E, OWDTR-0145-E | 15 | 3636B-0133, 3636B-0145 | RSS-119 | |
| 5180 - 5825 MHz | 0.1W | N/A | OWDTR-0133-E, OWDTR-0145-E | 15 | 3636B-0133, 3636B-0145 | RSS-119 | |

*Configurations supporting the three (3) 700, 800 and 900 MHz frequency bands do not support 768-776 MHz/763-776 MHz talkaround

| LMR RECEIVER | | | | |
|---|---|--------------------|---|--------------------|
| Frequency Bands | VHF | UHF | 700/800 MHz | 900 MHz |
| Frequency Ranges (MHz): Option 1 (US) Option 2 (International) | 136-174 136-174 | 378-522 378-522 | 768-776, 851-861 763-776, 851-870 | 935-944 935-944 |
| Channel Spacing (kHz) | 25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2) | | 25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2) | |
| Frequency Stability (-30 to +60°C) | ±1.0 ppm | ±1.0 ppm | ±1.0 ppm | ±1.0 ppm |
| Sensitivity (dBm): @ 12 dB SINAD | -122 | -121 | -121 (700 MHz) -120 (800 MHz) | -120 (900 MHz) |
| Project 25 Reference Sensitivity (dBm): @ 5% BER | -122 | -121 | -120.5 | -120.5 |
| Analog Selectivity (dB): @ 25 kHz @ 12.5 kHz | 77 71 | 77 70 | 74 64 | 74 64 |
| Project 25 Adjacent Channel Rejection (dB) | 66.2 | 62.2 | 62 | 62 |
| Offset Channel Selectivity (dB): @ NPSPAC | NA | NA | 30 | 30 |
| Intermodulation (dB) | 80 | 81 | 77 | 77 |
| Spurious and Image Rejection (dB) | 90 | 87 | 80 | 80 |
| FM Hum and Noise (dB): @ 25 kHz @ 12.5 kHz | -60 -55 | -60 -53 | -55 -50 | -55 -50 |
| Audio Output - Rated/Max (mW) | 1500/4000 | 1500/4000 | 1500/4000 | 1500/4000 |
| Audio Distortion @ Rated Power (%) | 1.1 | 1.1 | 1.1 | 1.1 |

| BROADBAND | |
|---|--|
| LTE Protocol | 3GPP Release 11, Category 12, Power Class 3 UE with support for QoS QCI |
| North America LTE Option | 4G LTE Bands: B2, B4, B5, B7, B12, B13, B14, B17, B26, B29*, B30*, B66 3G Bands: B2, B5 Carrier Certification: FirstNet, AT&T, Verizon, Telus, T-Mobile, Southern Linc |
| International LTE Option (In selected countries) | 4G LTE Bands: B1, B3, B5, B7, B8, B28 3G Bands: B1, B5, B8 Carrier Certification: Telstra |
| Wi-Fi | 802.11 b/g/n/r 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks |
| Bluetooth | Bluetooth® 4.0 (128-bit encryption) |

*Downlink only for Carrier Aggregation

SPECIFICATIONS FOR XL CONVERGE 185P PORTABLE RADIO

| DIGITAL OPERATION | | |
|-----------------------------|--|----------------------------|
| Protocol | P25 | ProVoice™ |
| Vocoding Method | AMBE+2 enhanced full rate and enhanced half rate | AMBE+2™ enhanced full rate |
| Signaling Rate (kbps) | 9.6 | 9.6 |
| Modulation | Phase 1 Tx: C4FM; Rx: C4FM and CQPSK Phase 2 Tx: HCPM; Rx: HDCQPSK | GFSK |
| L3Harris Failsoft Operation | Switch to site trunking mode (for L3Harris infrastructure) or P25 conventional. Conventional Failsoft for Motorola | |

| ENCRYPTION | |
|---------------------------|---|
| Encryption Algorithms | Voice Encryption: Single-key AES/DES, Multiple-key AES/DES, DES-CFB, Encryption Lite (ARC4), 256-bit AES P25, 64-bit DES; Control Channel Encryption: 128-bit AES (LLA) |
| Encryption Keys Per Radio | Capable of storing 1,045 keys |
| Keying | L3Harris Key Loader, Over-the-Air Rekeying (OTAR) for respective UKEs, Motorola KVL 3000+/4000/5000 |
| Standards | FIPS 140-2 Level 1, FIPS 197 |

| BATTERIES | | | |
|-----------------------|------------------------------------|----------------|----------------|
| Type | Dimensions (H x W x D) | Weight | Capacity (mAh) |
| Li-Ion | 3.0 x 2.3 x 0.9 in | 4.8 oz (136 g) | 3100 |
| High Capacity Battery | 3.0x2.3x1.3 in (76.2x58.4x33.0 mm) | 7.2oz (204g) | 4800 |

ACCESSORIES

Headsets

The XL 185P is compatible with various headsets and covert audio accessories for every need. Also works with Bone Conducting Skull Headsets and Throat Microphone/Headset Kits.



3-Wire Mini-Lapel Microphone



Tactical Headset

Speaker Microphones

L3Harris offers a versatile line of speaker microphones for the XL 185P.



XL Extreme Speaker Mic



Standard Mic



REVO NC2 Speaker Mic



Advanced Bluetooth Speaker Mic



500 Fire-Rated Speaker Mic

Chargers

L3Harris offers a variety of chargers for the XL 185P radio for fast and safe charging in as little as 4 hours.



XL Single-Bay+ Charger



Multi-bay Charger*



Vehicular Charger*

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XL Converge 185P Single-Band P25 Land Mobile Radio with LTE

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