# LX-3 L-Band Board

## L-Band Receiver Specifications

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|---|---|
| Receiver Type: | Single Channel |
| Channels: | 1530 to 1560 MHz |
| Sensitivity: | -130 dBm |
| Channel Spacing: | 5.0 KHz |
| Satellite Selection: | Manual or Automatic |
| Reacquisition Time: | 15 sec (typical) |

## Communications

| | |
|---|---|
| Serial Ports: | Port D on P206, P306, and H200 (in use) |

## Power

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|---|---|
| Input Voltage: | 3.3 VDC +/-5% |
| Power Consumption: | 0.66  W @ 3.3 V |
| Current Consumption: | 190 mA @ 3.3 V |
| Antenna Voltage Input: | 0-15 VDC maximum |
| Antenna Short Circuit Protection: | Yes |
| Antenna Input Impedance: | 50 Ω |

## Environmental

| | |
|---|---|
| Operating Temperature: | -40°C to +85°C (-40°F to +185°F) |
| Storage Temperature: | -40°C to +85°C  (-40°F to +185°F) |
| Humidity: | 95% non-condensing (when installed in an enclosure) |
| Shock and Vibration: | EP455 (when mounted in an enclosure with screw mounting holes utilized) |
| EMC: | FCC Part 15, Subpart B, CE (IEC 60945), CISPR22 |

## Mechanical

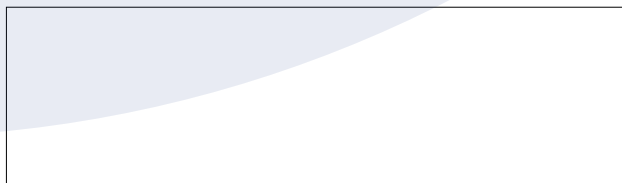| | |
|---|---|
| Dimensions: | 7.1 L x 4.1 W x 1.2 H (cm) |
| | 2.8 L x 1.6 W x 0.5 H (in) |
| Weight: | < .014 kg (< 0.50 oz) |
| Power/Data Connector: | 17-pin male header, 2 rows, 0.05" pitch |
| | 17-pin female header, 2 rows, 0.05" pitch |
| Antenna Connectors: | MCX straight socket (male and female) |
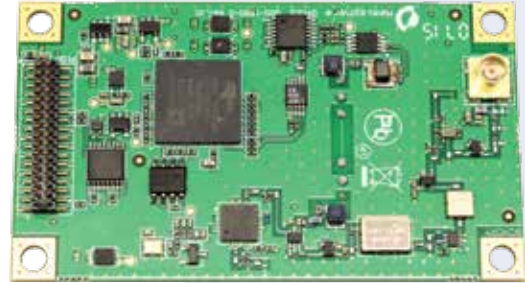
Improve GNSS positioning accuracy by adding L-band differential capability with Hemisphere GNSS' LX-3 OEM board. L-band differential signal corrections are broadcast via satellites to cover most land areas worldwide. The LX-3, coupled with Hemisphere GNSS' exclusive P206, P306, and H200 boards, can track L-band high precision signals that improve position accuracy to better than 10 cm. It is an ideal alternative or backup to other differential sources such as RTK, SBAS (WAAS, EGNOS, MSAS, etc.) and radiobeacon, especially in regions where those signals are difficult or impossible to track.

The LX-3 automatically tracks the best differential satellite broadcast if more than one is available in a particular region or tracks a specific satellite manually set by the user.

The LX-3 comes as an OEM board that can easily be mounted with a P206, P306, or H200 board for optimal performance.

Authorized Distributor:

## Hemisphere®

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