

## LMU-2650MB™ Sealed

*Rugged Gateway for Beyond-Vehicle Asset Intelligence*



Construction  
Equipment



Towable  
Equipment



Infrastructure  
Monitoring



Trailers



• **Dimensions:**

5.48 x 3.46 x 0.146 in  
(including mounting  
tabs)

• **Weight:**

320g

## Overview

The CalAmp LMU-2650MB Sealed is a rugged, next-generation gateway designed to extend telematics beyond traditional fleet tracking into operational visibility for heavy equipment, towables, trailers, and industrial assets operating in harsh environments. Its upgraded processor, expanded I/O, and fully sealed housing enable utilization monitoring, runtime and idle analysis, and sensor-driven equipment intelligence across a wide range of non-CAN applications. A built-in LiFePO<sub>4</sub> backup battery maintains event reporting and asset visibility whenever external power is lost, helping protect critical operational data and minimize downtime.

## Highlights

- Supports Dual-Device Stolen Recovery Mode (as part of CalAmp Sentinel™)
- Global LTE Cat-M1 connectivity with 2G fallback
- Supports BLE 5.2 for wireless peripherals
- Flexible I/O for sensors and controls
- Sealed enclosure and captured harness with flying leads
- Includes a LiFePO<sub>4</sub> backup battery for power-loss resilience
- Enables on-device edge logic via PEG2 and EdgeApp SDK
- Detects motion and impact with a 3-axis accelerometer

# LMU-2650MB™ Sealed

## Technical Specifications

| Cellular Connectivity    |                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| LTE Cat M1 Bands         | B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B28, B39                                                                  |
| GSM Fallback             | 850/900/1800/1900 MHz                                                                                                                |
| GNSS                     |                                                                                                                                      |
| GNSS Constellations      | Hybrid GPS, GLONASS, BeiDou, Galileo, QZSS                                                                                           |
| Receiver                 | 55 Channels                                                                                                                          |
| Tracking Sensitivity     | -163 dBm                                                                                                                             |
| Acquisition Sensitivity  | -148 dBm (cold start)<br>-155 dBm (hot start)                                                                                        |
| Location Accuracy        | ~2.5m CEP (Open Sky)                                                                                                                 |
| Location Update Rate     | Up to 5 Hz                                                                                                                           |
| AGPS Location Assistance | Supported                                                                                                                            |
| 12-Wire Harness I/O      |                                                                                                                                      |
| 1 Ignition Input         | Fixed bias                                                                                                                           |
| 2 Digital Inputs         | 0-32 VDC, high/low bias selectable                                                                                                   |
| 3 Digital Outputs        | 150mA, open collector relay driver outputs                                                                                           |
| 1 Analog Inputs          | 0-32 VDC, general purpose                                                                                                            |
| 1-Wire Interface         | 1-Bit Bus                                                                                                                            |
| Serial Interface         | 2-wire TTL Tx/Rx                                                                                                                     |
| 2 Power                  | 12/24 VDC, Ground                                                                                                                    |
| Other Interfaces         |                                                                                                                                      |
| Sensors                  | 3-Axis Accelerometer                                                                                                                 |
| Serial Interface         | 1 USB (internal)                                                                                                                     |
| Status LEDs              | 2 (GPS, Cellular)                                                                                                                    |
| Connectors & Antennas    |                                                                                                                                      |
| Cellular Antenna         | Internal                                                                                                                             |
| GPS Antenna              | Internal                                                                                                                             |
| BLE Antenna              | Internal                                                                                                                             |
| Power, Ground, I/O       | 12-wire captured harness                                                                                                             |
| SIM Access               | Internal (2FF SIM)                                                                                                                   |
| Electrical               |                                                                                                                                      |
| VIN Operating Voltage    | 12/24 VDC Vehicle Systems<br>9-30 VDC (start-up, operating)<br>7-32 VDC (momentary)                                                  |
| Power Consumption        | Typical <500µA @ 12V (low power sleep)<br>Typical 25mA @ 12V (radio-active sleep)<br>Typical 50mA @ 12V (GPS tracking and cell idle) |

| Certifications                     |                                                                                                                                                              |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC, CE (pending), IC, PTCRB, RoHS |                                                                                                                                                              |
| Battery Pack                       |                                                                                                                                                              |
| Battery Capacity                   | 1100 mAh                                                                                                                                                     |
| Battery Technology                 | Lithium-Iron Phosphate (LiFePO4)                                                                                                                             |
| Charging Temperature               | 0°C to 45° C                                                                                                                                                 |
| Environmental                      |                                                                                                                                                              |
| Temperature                        | -30° to + 60° C (connected to primary power)<br>-20°C to +60°C (operating on internal battery)<br>-20°C to +25°C ≤ 6 months (long term storage with battery) |
| Humidity                           | ≤ 85% RH @ +50°C non-condensing                                                                                                                              |
| Vibration                          | SAE J1455, MIL-STD-810F                                                                                                                                      |
| Shock                              | MIL-STD-202G                                                                                                                                                 |
| ESD                                | IEC 61000-4-2 (4KV)                                                                                                                                          |
| Ingress Protection Rating          | IP67                                                                                                                                                         |
| Interface Standards                |                                                                                                                                                              |
| Bluetooth                          | BLE 5.2                                                                                                                                                      |
| Serial Interfaces                  | TTL (1), USB (1)                                                                                                                                             |
| Edge Programming                   |                                                                                                                                                              |
| Operating System                   | ThreadX RTOS                                                                                                                                                 |
| Firmware                           | EdgeCore                                                                                                                                                     |
| PEG2                               | Programmable device behavior logic for intelligent event processing                                                                                          |
| EdgeApp SDK                        | Develop custom applications and features on the edge                                                                                                         |
| Hosted Application Support         | 3MB program flash<br>14MB file system<br>60MB RAM                                                                                                            |
| Software Services <sup>1</sup>     |                                                                                                                                                              |
| Device Management                  | Manage, configure, and deploy OTA software updates to connected assets at scale                                                                              |
| CalAmp Telematics Cloud            | Stream telematics data into proprietary systems with flexible API integration                                                                                |

<sup>1</sup> Subscription service required to access full features. For more information and pricing, please contact a sales representative. Find the most up-to-date information at <https://www.calamp.com/devices/>