

LMU-3240L™

Compact LTE CAT 4 OBD device for connected vehicle telematics

The LMU-3240L is a compact, next-generation LTE CAT 4 OBD device for connected-car and enterprise fleet telematics. Wi-Fi and cellular connectivity, built-in diagnostics, a backup battery, and CalAmp cloud-based analytics support dependable vehicle tracking and monitoring.

Cal/Amp®



DIMENSIONS



48 × 63.25 × 29 mm
(1.89 × 2.49 × 1.14 in)

WEIGHT



72 g
(2.5 oz)

Highlights



LTE CAT 4 cellular connectivity for connected vehicle applications



Built-in vehicle diagnostics support fleet performance insights



Internal backup battery supports power-loss reporting



OBDII and alternative power harnesses provide installation flexibility



Wi-Fi connectivity expands communications options



CalAmp cloud services enable remote monitoring and analytics

PHYSICAL DESIGN

Dimensions 48 × 63.25 × 29 mm
(1.89 × 2.49 × 1.14 in)

Weight 72 g (2.5 oz)

CELLULAR

LTE CAT 4 Bands B2, B4, B5, B12

3G Bands B2, B5

Data Support SMS, UDP, Wi-Fi, TCP, TLS

GNSS

Constellation Support GPS, GLONASS, SBAS (WAAS, EGNOS, MSAS)

GNSS Channels 55 Channel

Tracking Sensitivity -167 dBm

Acquisition Sensitivity -157 dBm (hot start)
-148 dBm (cold start)

Location Accuracy ~2.0m CEP Open Sky (GPS SBAS 24 hours static)

Location Update Rate Up to 5 Hz

A-GPS Assistance Yes

WIRELESS INTERFACES

Bluetooth BLE 4.2

Wi-Fi 802.11a/b/g/n/ac, 2.4 GHz and 5 GHz

VEHICLE BUS

Vehicle Connector Type OBD-II

Light-Duty Protocols J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP 2000, ISO-15765 CAN, SW-CAN

ANTENNAS & SIM

Cellular Antenna Internal

GPS Antenna Internal

Wi-Fi Antenna Internal, 2.4 GHz & 5 GHz

SIM Access External/Internal (2FF)

POWER

Operating Voltage 12-24 VDC Vehicle Systems
9-30 VDC (start-up, operating)
7-32 VDC (momentary)

Power Consumption Typical 500 uA @ 12V (deep sleep)
Typical 2 mA @ 12V (sleep on active network)
Typical 70 mA @ 12V (active tracking with GPS and cell enabled)

Battery Capacity 180 mAH

Battery Technology Lithium-ion (Li-ion)

Charging Temperature 0° to +45° C

ENVIRONMENTAL

Temperature -30° to +60° C (connected to primary power)
-10° to +60° C (operating on internal battery)
-20° to +25° C ≤ 6 months (long term storage)

Humidity 85% RH @ 50° C non-condensing

Shock & Vibration MIL-STD-202G, MIL-STD-810F, SAE J1455

ESD IEC 61000-4-2, 4 kV

SENSORS

Motion Sensor 3-axis accelerometer; 3-axis gyroscope

I/O

Analog Inputs 2 external ADC inputs

Status LEDs Programmable dual color (OBD, cellular, GPS)

Buzzer Integrated buzzer for audible alert applications

EDGE INTELLIGENCE

Firmware EdgeCore

Edge Programming PEG2 & EdgeApp SDK

Geofences 32 general, >4K expanded

Buffered Messages Up to 20,000

Operating System ThreadX RTOS

CLOUD / SOFTWARE SERVICES

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

CalAmp App Fleet and asset management software for tracking, monitoring, and managing vehicles, equipment, drivers, assets, and cargo.

CERTIFICATIONS

Certifications FCC, IC, PTCRB, Applicable Carriers, IEEE 1725-2011, UL 1624, UN 38.3

ACCESSORIES

Accessories [View accessories on CalAmp.com](https://calamp.com/accessories)