



LTE CAT M1 · DATA SHEET

LMU-3040MB™

Next-generation OBD telematics device for global fleets and connected vehicles



DIMENSIONS

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

WEIGHT

72 g
(2.5 oz)

Overview

The LMU-3040MB delivers next-generation OBD telematics for global connected-car and enterprise fleet applications. Flexible installation, built-in vehicle diagnostics, serial I/O, a triple-axis motion sensor, and an internal backup battery support reliable monitoring and asset control.

Highlights



OBDII and alternative power harnesses provide installation flexibility



Built-in vehicle diagnostics support connected vehicle insights



Driver monitoring identifies speeding and harsh driving events



Internal backup battery supports power-loss reporting



Gateway and tag integration supports cargo monitoring



Remote safety lockout supports theft detection and recovery

PHYSICAL DESIGN

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

Weight 72 g (2.5 oz)

CELLULAR

LTE CAT M1 Bands B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B28, B39

2G Bands B2, B3, B5, B8

Data Support SMS, UDP Packet Data, 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 ~2.5m CEP Open Sky

Location Update Rate Up to 5 Hz

A-GPS Assistance Yes

WIRELESS INTERFACES

Bluetooth BLE

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

SIM Access External

POWER

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

Power Consumption Typical 675 uA @ 12V (deep sleep)
Typical 2 mA @ 12V (sleep on active network)
Typical 60 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

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

EDGE INTELLIGENCE

Firmware EdgeCore

Edge Programming PEG2 & EdgeApp SDK

Geofences 32 built-in

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, CE, PTCRB, RCM, Applicable Carriers

ACCESSORIES

Accessories

- CBL00033: 1 meter, 16 PIN OBD II TYBE B 24V Y CABLE, OBD MOUNTING KIT
- CBL00037: MiTAC Camera, OBD
- CBL00010: 0.75 meters, 16 PIN OBD II TYPE B 24V Female (J1939)
- 5C639: 2 feet, OBD FEMALE TO RP1226 14 PIN M
- 5C776-12V: 1 meter, 16 PIN OBD II TYPE A 12V Y CABLE
- 5C776-24V: 1 meter, 16 PIN OBD II TYPE B 24V Y CABLE
- 5C990S-5: 5 meters, M25 16 PIN M to J1962 24V M+F Y (H+CAN+J1708+CAN2)