

# LMU-3040MB

LTE CAT-M1



## Robust Next Generation OBD Telematics for Global Connected Car and Enterprise Fleet Applications



### Dimensions

1.88" x 2.50" x 1.14"

48 mm x 63.25 mm x 29 mm

### Weight

2.54 oz. (72 g)

### Cloud Native Platform

Telematics Cloud allows you to connect remote assets to a diverse set of vertical applications and third party services to scale your fleet and power data-driven operations.

### Powerful Applications

CalAmp's enterprise-grade applications allow you to visualize the data you need and extract maximum value while minimizing your costs. Put intelligent analytics and custom reporting at your fingertips via a single-view, user-friendly interface.

## Vehicle Tracking Technology

Flexible • Precise • Affordable



### Flexible Installation

Wired, OBDII, and cigarette lighter power harness options for ready-to-use device setup



### Gateway and Tag Ecosystem

Integrate with purpose-built tags and sensors for monitoring location of cargo in transit



### Driver Monitoring

Run time and performance diagnostics including speeding, accident detection, extreme braking and cornering, etc.



### Remote Safety Lockout

Easily disable vehicles or equipment, and remotely enable theft detection and stolen vehicle recovery



### Battery Assurance

Mitigate interference or power loss with internal backup included battery



### Comprehensive Inputs/Outputs

Serial I/O options, triple-axis accelerometer; vehicle diagnostics built-in

# LMU-3040MB, LTE CAT-M1 | Rugged. Precise. Affordable.

Cellular/Network	
Global Variant	
LTE CAT-M1	2100 (B1)/1900 (B2)/1800 (B3)AWS 1700 (B4)/850 (B5)/900 (B8)/700 (B12/B13/B28)/800 (B18/B19/ B20)/1900 (B39/B25) MHz
GSM/GPRS	850/900/1800/1900 MHz

Data Support
SMS, UDP Packet Data, TCP, TLS, CalAmp Telematics Cloud API

Satellite Location (GNSS)	
Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
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
AGPS Location Assistance Capable	Yes

Comprehensive I/O	
OBD-II Interface	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP 2000, ISO-15765 CAN, SW-CAN
Serial Port	Micro-USB 2.0 Connector
Status LEDs	Programmable dual color (OBD, cellular, GPS)
Sensors	Accelerometer: Triple-axis, impact, motion sense Gyroscope: Triple-axis

Interface Standards	
Bluetooth	Bluetooth Low Energy (BLE)

Wireless Interfaces	
BLE Antenna	Internal
Cellular Antenna	Internal
GPS Antenna	Internal

Physical/Design	
Dimensions	1.88" x 2.50" x 1.14" 48 mm x 63.25 mm x 29 mm
Weight	2.54 oz. (72 g)

Certifications	
Industry Certifications	FCC, IC, CE, PTCRB, RCM, Applicable Carriers

Electrical	
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 Pack	
Battery Capacity	180 mAh
Battery Technology	Lithium-Ion
Charging Temperature	0° to +45° C
Certifications	IEEE 1625/1725, US DOT 38.3, IEC62133-2, UL 2054

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 and Vibration	U.S. Military Standards 202G, 810F SAEJ1455
ESD	IEC 61000-4-2 (4KV Test)

OBD Data Extraction	
Detection	Automatic detection of vehicle interface services
Extraction	Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available by the embedded OBD firmware stack
Scripts	Download of vehicle specific diagnostic scripts dependent on vehicle model variant

Connectors/SIM Access	
SIM Access	External

Edge Intelligence <sup>1</sup>	
PEG™	Update device functionality or develop new on the edge applications
Geo-Fences	32 built-in
Buffered Messages	20,000

Cloud/Software Services <sup>1</sup>	
CalAmp Application	Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely
CalAmp Telematics Cloud	Device data stream via RESTful APIs

For full tech specs visit [calamp.com](https://calamp.com)

<sup>1</sup> Subscription service required. Contact sales rep for additional details.

