Cal/Amp®

LTE CAT 1 · DATA SHEET

LMU-3040LA™

Compact LTE CAT 1 OBD device for connected vehicle telematics



DIMENSIONS	WEIGHT
48 × 63.25 × 29 mm (1.89 × 2.49 × 1.14 in)	72 g (2.5 oz)

Overview

The LMU-3040LA is a compact LTE CAT 1 OBD device designed for quick installation and connected vehicle visibility. Built-in diagnostics, driver monitoring, an internal backup battery, tag integration, and remote safety controls support fleet performance, security, and recovery.

Highlights

- OBDII connection enables quick installation and setup
- Built-in vehicle diagnostics require no accessory
- 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

Technical Specifications

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PHYSICAL DESIGN	
Dimensions	48 × 63.25 × 29 mm (1.89 × 2.49 × 1.14 in)
Weight	72 g (2.5 oz)

CELLULAR	
LTE CAT 1 Bands	B2, B4, B5, B12
3G Bands	B2, B5
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	~2.0m CEP Open Sky (GPS SBAS 24 hours static)
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
Serial Interface	USB

ANTENNAS & SIM	
Cellular Antenna	Internal
GPS Antenna	Internal
SIM Access	Internal (4FF SIM)

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	
Serial Interface	Micro USB 2.0 B Type
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 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, PTCRB, Applicable Carriers

ACCESSORIES	
Accessories	*Go to CalAmp.com for full accessories.*

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