LMU-3240L
LTE CAT-4

Cal/Amp®

Robust Next Generation OBD Wi-Fi Telematics for 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
CalAmp Telematics Cloud allows you to connect remote assets to a diverse set of vertical applications and thirdparty 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

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

Battery Assurance
Mitigate interference or power loss with internal backup included battery

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

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

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

LMU-3240L, LTE CAT-4 | Rugged. Precise. Affordable.

Cellular/Network

North American Variant I	
LTE CAT-4	1900 (B2)/AWS 1700 (B4)/850 (B5)/ 700 (B12) MHz
HSPA/UMTS	850 (V)/1900 (II) MHz

Data Support

SMS, UDP, Wi-Fi, TCP, TLS

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	~2.0m CEP Open Sky (GPS SBAS 24 hours static)
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 B Type
Status LEDs	Programmable dual color (OBD, cellular, GPS)
Analog Inputs	2 external ADC inputs
Buzzer	Integrated buzzer for audible alert applications
Sensors	Accelerometer: 3-axis, impact, motion sense Gyroscope: 3-axis (pitch, yaw and roll)
SIM Access	Accessible (4FF SIM)

Interface Standards

Wi-Fi	802.11 a/b/g/n/ac
Bluetooth	BLE 4.2

Wireless Interfaces

GPS Antenna	Internal
Cellular Antenna	Main and Diversity
BLE Antenna	Internal
Wi-Fi Antenna	Internal, 2.4 GHz & 5 GHz

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, PTCRB, Applicable Carriers

Electrical

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 Pack

Battery Capacity	180 mAH
Battery Technology	Lithium-Ion
Charging Temperature	0° to +45° C
Certifications	IEEE 1725-2011, UL 1624, UN 38.3

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	Internal (2FF SIM)

Edge Intelligence[1]

PEG™	Update device functionality or develop new on the edge applications
EdgeApp SDK	Write custom embedded app for edge intelligence
Geo-Fences	32 general, >4K expanded
Buffered Messages	20,000

Cloud/Software Services[1]

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

[1] Subscription service required. Contact sales rep for additional details.

Cal/Amp®