LMU-3640MB
LTE CAT M1, Internal Antenna

Cal/Amp®

Robust Telematics Gateway Built for Dynamic Flexibility

Dimensions

5.7" x 2.1" x 1.3"

94 mm x 53 mm x 20 mm

Weight

5 oz. (142 g) (w/ 1000mAh battery)

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 (with optional adapter), 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
Digital and Analog I/O options, triple-axis accelerometer; vehicle diagnostics built-in

LMU-3640MB LTE CAT M1, Internal Antenna | Rugged. Precise. Affordable.

Cellular/Network

Global Variant	
LTE CAT-M1	2100 (B1)/1900 (B2)/1800 (B3)AWS 1700 (B4)/850 (B5/B26)/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

Satellite Location (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Channels	55 Channel
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-156 dBm (hot start) -148 dBm (cold start)
Location Accuracy	~2.0m CEP Open Sky (SBAS 24 hours static)
Location Update Rate	Up to 4 Hz
AGPS Location Assistance Capable	Yes

Comprehensive I/O

Ignition Inputs	1 fixed bias
Digital Inputs	4 (high/low bias selectable 0-30 VDC)
Digital Outputs	3 (open collector relay 150mA)
Analog Inputs	2 external ADC inputs
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
1-Wire® Interface	1 (driver ID/temperature sense)
Power Output	1 switched VIN, 2 switched 3.3V
Status LEDs	4 (GPS, cellular, VBUS, LAN)
Serial Interface	2 (1 TTL, 1 RS-232)
Integrated Buzzer	Programmable audible alert

Interface Standards

Bluetooth	Bluetooth Low Energy (BLE) 5.0 capable
Heavy Duty Truck Data	J1939, J1708
Light Duty Vehicle Data	J1850 PWM, J1850 VPW, SW-CAN ISO 9141-2, KWP 2000, ISO 15765 CAN

Wireless Interfaces

BLE Antenna	Internal
Cellular Antenna	Internal
GPS Antenna	Internal

Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical 600uA @ 12V (deep sleep) Typical 15mA @ 12V (radio-active sleep) Typical 90mA @ 12V (active tracking w/GPS and cell enabled)

Battery Pack

Battery Capacity	Up to 1000 mAh
Battery Technology	Lithium-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 with battery)
Humidity	85% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G
ESD	IEC 61000-4-2 (4KV test)
Load Dump	SAEJ1455

Physical/Design

Dimensions	5.7" x 2.1" x 1.3" 145 mm x 53 mm x 33 mm
Weight	5 oz. (142 g) (w/ 1000mAh battery)

Connectors/SIM Access

Vehicle BUS I/F	16-Pin 3mm Pitch
Power, I/O	24-Pin 3mm Pitch
SIM Access	Internal (2FF SIM)

Edge Intelligence[1]

PEG™	Update device functionality or develop new on the edge applications

Cloud/Software Services[1]

CalAmp Application	Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely
CalAmp Telematics Cloud	Device data stream via RESTful APIs

Certifications

Industry Certifications	FCC, IC, CE, PTCRB, RoHS, BT SIG, RCM

For full tech specs visit calamp.com

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

CalAmp®