

# LMU-3641MB

LTE CAT M1, External Antenna

Cal/Amp®

Robust Telematics Gateway Built for Dynamic Flexibility



## 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)

## 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



### 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

Digital and Analog I/O options, triple-axis accelerometer; vehicle diagnostics built-in

# LMU-3641MB, LTE CAT M1, External 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	-1.62 dBm
Acquisition Sensitivity	-1.56 dBm (hot start) -1.48 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	External, SMC
GPS Antenna	External, SMA

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	SAE J1455

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 <sup>1</sup>	
PEG™	Update device functionality or develop new on the edge applications

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

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

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

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

