

LMU-2650MB

LTE Cat-M1

Cal/Amp®

Superior gateway purpose built for light and medium duty vehicles and assets



Dimensions

4.0" x 2.2" x 0.8"

106 mm x 57 mm x 22 mm

Next Generation Telematics Built on EdgeCore

Packed with more processing power, input/output connectivity, memory, and battery life, the LMU-2650MB gives you the tools to do more.

Secure, reliable, and scalable EdgeCore firmware affords you complete access to the full arsenal of EdgeApp development capabilities:

- Run compute-intensive applications locally on telematics hardware
- Tackle latency-sensitive use cases
- Protect your IP and streamline development of new functionality in your application
- Interface with mobile applications
- Ease integration of 3rd party sensors and peripherals

Advanced Asset Tracking Technology



Lightweight, Scalable RTOS

ThreadX real-time operating system affords smaller memory footprint, faster execution, and ease of use.



Upgraded Connectivity

Bluetooth 5.x support and additional analog/digital/serial inputs/outputs for exceptional connectivity and performance.



Enhanced Backup Battery Performance

Lithium Iron Phosphate battery delivers longer life span, improved safety, lighter weight, and improved discharge and charge efficiency.



Advanced Accelerometer

Built in triple-axis accelerometer with improved accuracy for driver behavior, impact detection, motion sensing, and tilt detection - with no external connections required.



Hosted App Support

Includes 3MB of program flash, 14MB of file system, and 60MB of RAM.



Deploy Worldwide

LTE Cat M1 communications with 2G fallback provide a 5G future-proof solution for global markets.

LMU-2650MB, LTE Cat-M1 | 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 Fallback	850/900/1800/1900 MHz

Data Support
SMS, UDP Packet Data, TCP

Software Stack	
Operating System	ThreadX
Firmware	EdgeCore
Supported applications	CalAmp app, CalAmp Telematics Cloud (CTC)

Satellite Location (GNSS)	
Constellation Support	Hybrid GPS, GLONASS, Beidou, Galileo and QZSS
Channels	55 Channels
Tracking Sensitivity	-163 dBm
Acquisition Sensitivity	-155 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	
Ignition Inputs	1 fixed bias
Digital Inputs	4 (high/low bias selectable 0-32 VDC)
Digital Outputs	3 (open collector relay 150mA)
Analog Inputs	2 (external ADC input 0-32 VDC)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
Serial Interface	1 USB and 2 TTL ports with switched power
DC Power	1 switched VIN output
1-Wire Interface	1
Status LEDs	3 (GPS, Cellular, BLE)

Wireless Interfaces	
BLE Antenna	Internal (BLE 5.x)
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 <500uA @ 1.2V (low power sleep) Typical 25mA @ 1.2 V (radio-active sleep) Typical 50mA @ 1.2 V (GPS tracking and cell idle)

Battery Pack	
Battery Capacity	1100 mAh
Battery Technology	Lithium Iron Phosphate
Charging Temperature	0° to +45° C

Environmental	
Temperature	-30° to +60° C (Connected to Primary Power) -20° 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, 810F, SAE J1455
ESD	IEC 61000-4-2 (4KV test)

Form Factor	
Dimensions	4.0" x 2.2" x 0.8" 106 mm x 57 mm x 22 mm
Weight	3.4 oz. (97 g)

Connectors/SIM Access	
Power, I/O	24-Pin 3mm Pitch
SIM Access	Internal (2FF SIM)

Compatible Cables
5C348: 2-meters, fused PWR/GND/IGN
5C360: 2 meters, fully connectorized harness
5C735: 2 meters, breakout cable

Embedded Intelligence Engine	
PEG 2	Update device functionality or develop new on the Edge applications.

Compliance	
Certifications	FCC, CE (pending), IC, PTCRB, ROHS

For full tech specs visit calamp.com

