

LMU-3640MB™

LTE CAT M1 telematics gateway with internal GPS and cellular antennas

The LMU-3640MB is a flexible LTE CAT M1 telematics gateway with internal GPS and cellular antennas for discreet vehicle installation. Extensive I/O, built-in vehicle diagnostics, a backup battery, and CalAmp edge intelligence support advanced fleet tracking, controls, and analytics.

Cal/Amp®



DIMENSIONS



94 × 53 × 20 mm
(3.70 × 2.09 × 0.79 in)

WEIGHT



142 g
(5.0 oz)

Highlights



LTE CAT M1 connectivity with internal GPS and cellular antennas



Two analog inputs plus TTL and RS-232 serial interfaces



Internal backup battery supports power-loss reporting



Four digital inputs and three relay-driver outputs



Built-in triple-axis motion sensor supports event detection



CalAmp edge intelligence enables configurable device behavior

📦 PHYSICAL DESIGN	
Dimensions	94 × 53 × 20 mm (3.70 × 2.09 × 0.79 in)
Weight	142 g (5.0 oz)
📶 CELLULAR	
LTE CAT M1 Bands	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B28, B39
2G Bands	B2, B3, B5, B8
Data Support	SMS, UDP Packet Data, TCP
🌐 GNSS	
Constellation Support	GPS, GLONASS, SBAS (WAAS, EGNOS, MSAS)
GNSS 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
A-GPS Assistance	Yes
📶 WIRELESS INTERFACES	
Bluetooth	BLE 5.0
🚗 VEHICLE BUS	
Vehicle Connector Type	OBD-II; J1939; J1708; RP1226
Heavy-Duty Protocols	J1939, J1708
Light-Duty Protocols	J1850 PWM, J1850 VPW, SW-CAN, ISO 9141-2, KWP 2000, ISO 15765 CAN
📡 ANTENNAS & SIM	
Cellular Antenna	Internal
GPS Antenna	Internal
SIM Access	Internal (2FF SIM)
⚡ POWER	
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)
Power Output	1 switched VIN, 2 switched 3.3V
Battery Capacity	Up to 1000 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 with battery)
Humidity	85% RH @ 50° C non-condensing
Shock & Vibration	MIL-STD-202G
ESD	IEC 61000-4-2, 4 kV
Load Dump	SAEJ1455
🔍 SENSORS	
Motion Sensor	3-axis accelerometer
↔ I/O	
Power / I/O Connector	24-Pin 3mm Pitch
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
DC Power Outputs	1 switched VIN, 2 switched 3.3V
1-Wire Interface	1 (driver ID/temperature sense)
Status LEDs	4 (GPS, cellular, VBUS, LAN)
Buzzer	Programmable audible alert
</> EDGE INTELLIGENCE	
Firmware	32-Bit
Edge Programming	PEG & EdgeApp32 SDK
☁ 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, CE, PTCRB, RoHS, BT SIG, RCM
📦 ACCESSORIES	
Accessories	View accessories on CalAmp.com