

LMU-1300M™

Compact LTE CAT M1 tracker for vehicles and powered assets

The LMU-1300M is a compact, rugged GPS tracker designed for reliable vehicle and asset visibility in harsh environments. Flexible power options, a built-in backup battery, configurable I/O, driver monitoring, and CalAmp cloud services support scalable fleet operations.

Cal/Amp®



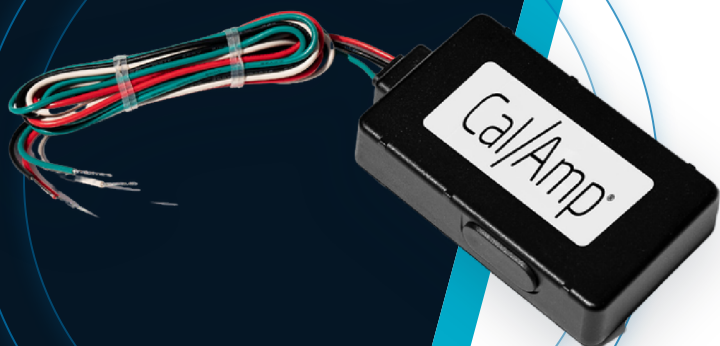
DIMENSIONS

89 × 50.1 × 19.2 mm
(3.50 × 1.97 × 0.76 in)



WEIGHT

100 g
(3.5 oz)



Highlights



LTE CAT M1 connectivity for vehicle and asset tracking



Driver-behavior monitoring includes speeding and harsh-event detection



Remote safety lockout supports theft detection and recovery



Wired, cigarette-lighter, or optional OBDII power installation



Internal backup battery maintains visibility during power loss



Digital I/O and a triple-axis motion sensor expand functionality

PHYSICAL DESIGN

Dimensions	89 × 50.1 × 19.2 mm (3.50 × 1.97 × 0.76 in)
Weight	100 g (3.5 oz)

CELLULAR

LTE CAT M1 Bands	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85
2G Bands	B2, B3, B5, B8
Data Support	SMS, UDP Packet Data

GNSS

Constellation Support	GPS, GLONASS, Galileo, BeiDou, QZSS
Tracking Sensitivity	-157 dBm
Acquisition Sensitivity	-157 dBm (hot start) -146 dBm (cold start)
Location Accuracy	<2.5m CEP Open Sky
Location Update Rate	Up to 5 Hz

ANTENNAS & SIM

Cellular Antenna	Internal
GPS Antenna	Internal
SIM Access	External

POWER

Operating Voltage	12/24 VDC Vehicle Systems 9-32 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical <500uA @ 12V (low power sleep) Typical <15mA @ 12 V (radio-active sleep) Typical <60mA @ 12 V (GPS tracking and cell idle)
Battery Capacity	180 mAh
Battery Technology	Lithium-ion (Li-ion)
Charging Temperature	0° to +45° C

ENVIRONMENTAL

Temperature	-30° to +60° C (connected to primary power) -20° to +60° C (operating on internal battery) -10° to +25° C ≤ 6 months (long term storage with battery)
Humidity	90% RH @ 50° C non-condensing
Shock & Vibration	MIL-STD-202G, MIL-STD-810F, SAE J1455
ESD	IEC 61000-4-2, 4 kV
Environmental Rating	IP65

SENSORS

Motion Sensor	3-axis accelerometer; 3-axis gyroscope
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I/O

Digital Inputs	1 (high/low selectable 0-32 VDC)
Digital Outputs	1 (open collector relay 150mA)

EDGE INTELLIGENCE

Firmware	EdgeCore
Edge Programming	PEG2 & EdgeApp SDK
Geofences	32 built-in
Buffered Messages	Up to 20,000
Operating System	ThreadX RTOS

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, PTCRB, CE/RED, Applicable Carriers
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ACCESSORIES

Accessories	View accessories on CalAmp.com
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