



LTE CAT M1 · DATA SHEET

LMU-1300M™

Compact LTE CAT M1 tracker for vehicles and powered assets

DIMENSIONS

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

WEIGHT

100 g
(3.5 oz)

Overview

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.

Highlights



LTE CAT M1 connectivity for vehicle and asset tracking



Wired, cigarette-lighter, or optional OBDII power installation



Driver-behavior monitoring includes speeding and harsh-event detection



Internal backup battery maintains visibility during power loss



Remote safety lockout supports theft detection and recovery



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

VEHICLE BUS

Serial Interface USB

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

I/O

Digital Inputs 1 (high/low selectable 0-32 VDC)

Digital Outputs 1 (open collector relay 150mA)

Serial Interface 1 USB Port

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