

LMU-2630LEB™ LMU-2630LNB™

LTE CAT 1bis

Smart Fleet Tracker with Expandable Intelligence



Dimensions:
3.7 x 2.0 x 0.8 in
(94 x 53 x 20 mm)

Weight:
2.8 oz. (80 g)
(w/ 1000 mAh
Battery)

Overview

The LMU-2630LEB and LMU-2630LNB are powerful telematics gateways with regional LTE CAT 1bis connectivity, BLE 4.2 for wireless peripherals, and capable I/O interfaces. These features enable sensor fusion, seamlessly integrating wired and wireless inputs for versatile fleet and asset management.

Powered by a high-performance microcontroller platform supported by Calamp's PEG intelligent logic programming, the LMU-2630 is a versatile platform for commercial light and heavy duty fleets and asset tracking.

Highlights

- PEG™ event engine for programmable rules-based behavior
- Logs up to 20,000 buffered messages
- Supports 32 geo-fences and 5,400-point polygons
- 5 inputs, 3 outputs, and a 1-wire interface for sensors and driver ID
- Switched power serial port for connected peripherals
- Built-in accelerometer, motion sensing, and impact detection for driver behavior
- Internal rechargeable battery for continued reporting during power loss or tampering
- Supports external disablement schemes for enhanced theft prevention
- Advanced power management with intelligent sleep modes
- Flexible power harness options: wired, OBDII, and cigarette lighter

LMU-2630LEB™ | LMU-2630LNB™ | Technical Specifications

Cellular/Network	
LTE CAT 1bis Regional Variants	
LMU2630LEB	B1, B3, B8, B20, B28
LMU2630LNB	B2, B4, B5, B12*, B13, B14, B17, B25*, B66*
Data Support	
SMS, UDP Packet Data, TCP	
Satellite Location (GNSS)	
Constellation Support	GPS/GAL/BDS/GLO
Tracking Sensitivity	-167 dBm
Acquisition Sensitivity	-148 dBm (cold start) -159 dBm (hot start)
Location Accuracy	~1.5m CEP Open Sky (SBAS 24 hours static)
Location Update Rate	4 Hz
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	1 (external ADC input 0-32 VDC)
Accelerometer	Built in, 3-axis (driver behavior, impact detection, motion sensing, tilt detection)
Serial Interface	2 TTL ports
DC Power Output	1 (switched 3.3V)
1-Wire® Interface	1 (driver ID/temperature sense)
Status LEDs	2 (GPS and Cellular)
Interface Standards	
Bluetooth	BLE 4.2
Wireless Interfaces	
BLE Antenna	Internal
Cellular Antenna	Internal
GPS Antenna	Internal

* Band 12 is a superset of Band 17, Band 25 is a superset of Band 2, and Band 66 is a superset of Band 4.

Electrical	
Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption*	Typical <500uA @ 12V (low power sleep) Typical <4mA @ 12V (sleep) Typical 25mA @ 12V (radio-active sleep) Typical 50mA @ 12V (GPS tracking and cell idle)
Battery Pack	
Battery Capacity	1000 mAh
Battery Technology	Lithium-Iron
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	US Military Standards 202G, 810F, SAE J1455
ESD	IEC 61000-4-2 (4KV test)
Ingress Protection Rating	IP41 in-cab use
Connectors/SIM Access	
Power, I/O	20-Pin 3mm Pitch
SIM Access	Internal (2FF SIM)
Edge Intelligence	
PEG™	Programmable device behavior logic for intelligent event processing
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
Certifications	
Industry Certifications	FCC, CE, IC, PTCRB, RoHS