Cal/Amp[®]



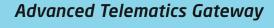




Heavy Duty



School Bus







Overview

The LMU-4350LB is a powerful telematics gateway with global LTE CAT 1 connectivity, 3G/2G fallback, BLE 5.2 for wireless peripherals, and extensive 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 multithreaded RTOS with PEG2TM intelligent logic programming and EdgeApp SDK for building customized apps, the LMU-4350LB is a versatile platform for commercial fleet, trucking, government, logistics, K-12, field services, and utilities.

- Dimensions:
- 138 x 89 x 22 mm (5.43 x 3.5 x 0.87 in)
- Weight:
 - 5.7 oz (163g)

- Global LTE CAT 1 with 3G/2G fallback
- ★ BLE 5.2 connectivity
- Dual CAN bus for Light or Heavy Duty vehicle support
- Dual 1-Wire interfaces
- Multiple I/O interfaces
- ★ Built in 3-axis accelerometer & gyroscope
- to Edge programming with PEG2 & EdgeApp SDK



LMU-4350LB[™] Technical Specifications

Cellular Connectivity		Certifications	
TE CAT-1 Bands 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 14, 18, 19, 20,		FCC, CE, IC, PTCRB, RoHS, BT SIG, RCM	
3G Bands	25, 26, 28 1, 2, 4, 5, 6, 8, 19	Battery Pack	
2G Bands	2, 3, 5, 8	Battery Capacity	1100 mAH
GNSS		Battery Technology	Lithium-Iron Phosphate (LiFePO4)
GNSS Constellations	Hybrid GPS, GLONASS, BeiDou, Galileo	Charging Temperature	0° to +45° C
Receiver	55 Channels	Certifications	IEEE 1725-2011, UL 1624, UN 38.3, IEC 62133
Tracking Sensitivity	-161 dBm	Environmental	
Acquisition Sensitivity	-145 dBm (cold start) -156 dBm (hot start)	Temperature	-40° to +75° C (connected to primary power) -20°C to +60°C (operating on internal battery) -20° to +25° C ≤ 6 months (long term storage with battery)
Location Accuracy	5.0m CEP-50		
Location Update Rate	5 Hz	Humidity	≤ 85% RH @ +55° C non-condensing
Anti-Jamming Detection	Supported	Vibration	SAE J1455, MIL-STD-810F
AGPS Location	Supported	Shock	SAE J1455, MIL-STD-202G (30G)
Assistance		ESD	IEC 61000-4-2 (4KV)
I/O Interfaces			, ,
Ignition Inputs	1 fixed bias	Interface Standards	
Digital Inputs	7 (high/low bias selectable 0-30 VDC)	Light Duty Vehicle	J1850 PWM, J1850 VPW, SW-CAN, ISO 9141-2, KWP 2000, ISO 15765 CAN
Digital Outputs	5 (open collector relay driver outputs, 200mA)	Heavy Duty Vehicle	J1939, J1708
Analog Inputs	5 (general purpose, 0-30VDC, +/-250mV accuracy)	Serial Interface	TTL: 5 Pin Molex
1-Wire Interface	2 (1-Bit Bus)	Bluetooth	BLE 5.2
DC Power Output	1 switched VIN (1A fused), 2 switched 3.3V (200mA each), 1 switched LED driver (20mA)	Edge Programming	
Serial Interface	2 TTL (5-pin)	Operating System	ThreadX RTOS
Status LEDs	4 (GPS, cellular, BT, VBU)	Firmware	EdgeCore
Sensors	3-Axis Accelerometer, Gyroscope	PEG2	Programmable device behavior logic for intelligent event processing
Connectors & Antennas		EdgeApp SDK	Develop custom applications and features
Cellular Antenna	Internal	casewhh 20K	on the edge
GPS Antenna	Internal	Onboard Geo-Fences	Locally stored geofence data for real-time geospatial processing Rectangle or radial zones: 21 Radial zones or vertices: 5400
BLE Antenna	Internal		
Auxiliary	AUX1: 5-pin Molex AUX2: 5-pin Molex		
	AUX3: USB Micro	Buffered Messages	Up to 20,000
D	AUX4: USB Type A Host	Software Services	
Power, Ground, IGN, ADC General I/O, Switched	4-Pin Molex 22-Pin 3mm Pitch	Device Management	Manage, configure, and deploy OTA software updates to connected assets at scale
Power Vehicle BUS I/F	16-Pin 3mm Pitch	CalAmp Telematics	Stream telematics data into proprietary
SIM Access	4FF externally accessible	Cloud	systems with flexible API integration
Electrical		Accessories	
VIN Operating Voltage	12/24 VDC Vehicle Systems 9-32 VDC (start-up, operating) 7-35 VDC (momentary)	 5C888: Power cable (4-pin) 5C889: I/O harness (22-pin) 134364-Ser: TTL (5-pin) to DB9 connector 5C734M-2: OBD-II connector (2m) 5C709M: J1939 Type 2 connector (2m) 5C970M-2: J1708 connector (2m) 5C744-275: RP1226 connector (2.75m) 	
Power Consumption	Typical $800\mu A @ 12V$ (deep sleep) Typical $10mA @ 12V$ (radio-active sleep) Typical $90mA @ 12V$ (GPS tracking and cell enabled)		

This device supports additional cables and accessories to accommodate various installation needs for light-, medium-, and heavy-duty vehicles. For a comprehensive list of compatible cables and connectors, please contact a CalAmp representative.