HMU-3640LB

LTE CAT-1

CalAmp®

Robust Next Generation OBD Telematics for Ruggedized Industrial Applications

Dimensions

7.0 "x 3.0" x 1.57"

178 mm x 76 mm x 41 mm

Weight

8.8 oz. (250 g)

Cloud Native Platform

Telematics Cloud allows you to connect remote assets to a diverse set of vertical applications and third party services to scale your fleet and power data-driven operations.

Powerful Applications

CalAmp's enterprise-grade applications allow you to visualize the data you need and extract maximum value while minimizing your costs. Put intelligent analytics and custom reporting at your fingertips via a single-view, user-friendly interface.

Heavy Duty Telematics Gateway

Flexible • Precise • Rugged

Rugged Installation

Robust power harness options for ready-to-use device setup

Performance Monitoring

Run time and machinery performance diagnostics

Battery Assurance

Mitigate interference or power loss with internal backup included battery

Remote Safety Lockout

Easily disable vehicles or equipment, and remotely enable theft detection and stolen vehicle recovery

Comprehensive Inputs/Outputs

Serial I/O options, triple-axis accelerometer; vehicle diagnostics built-in

HMU-3640LB, LTE CAT-1 | Rugged. Precise. Affordable.

Cellular/Network

Global Cat 1 with 3G/2G Fallback	
FDD-LTE Bands	1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 25, 26, 28
TDD-LTE Bands	38, 39, 40, 41
WCDMA Bands	1, 2, 4, 5, 6, 8, 19
GSM Bands	2,3,5,8

Data Support

SMS, TCP, UDP

Satellite Location (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Tracking Sensitivity	-164 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	~2.0m CEP Open Sky (SBAS 24 hours static)
Location Update Rate	Up to 4 Hz
AGPS Location Assistance Capable	Yes

Comprehensive I/O

Ignition Inputs	1 fixed bias
Digital Inputs	1 (high/low bias selectable 0-32 VDC)
Digital Outputs	1 (open collector relay 150mA)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
Analog Inputs	1 (external ADC inputs, 0-32 VDC)
Status LEDs	4 (GPS, cellular, BT, CAN)

Physical/Design

Dimensions	7.0"x 3.0" x 1.57" 178 mm x 76 mm x 41 mm
Weight	8.8 oz. (250 g with 500mAh Battery)

Certifications

Industry Certifications	FCC, IC, PTCRB, RoHS

Product Options

Bluetooth Low Energy (BLE) 5.0
CalAmp Telematics Cloud API

Interface Standards

BLE	CAN	Serial
5.2	two 250/500 KB CAN bus	RS232 or RS485 HD mode; selectable

Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-32 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical 500uA @ 12V (deep sleep) Typical 20mA @ 12V (radio-active sleep) Typical 100mA @ 12V (GPS tracking and cell idle)

Battery Pack

Battery Capacity	500 mAh
Battery Technology	Nickel-Metal Hydride, NiMH
Charging Temperature	0° to +40° C

Environmental

Temperature	-30° to +75° C (connected to primary power) 0° to +50° C (operating on internal battery) -20° to +25° C ≤ 6 months (long term storage with battery)
Shock and Vibration	Shock: 3 axis, 50g Vibration: Sinusoidal 15 to 2KHz, 3 axis, 8 hr duration, 39m/s^2
ESD	IEC 61000-4-2 (4KV test)
Ingress Protection Rating	IP67

Connectors/SIM Access

VBUS I/F Power, I/O	12-Pin Mini-Deutsch Connector
SIM Access	Internal (2FF SIM)

Edge Intelligence[1]

PEG™	Use as-is
Edge App Support	Flash Memory, up to 160KB RAM, up to 40KB

Cloud/Software Services[1]

CalAmp Application	Monitor, manage, upgrade firmware, configure and troubleshootdevices remotely
CalAmp Telematics Cloud	Device data stream via RESTful APIs

For full tech specs visit calamp.com

[1] Subscription service required. Contact sales rep for additional details.