LMU-5541
LTE CAT-4

Cal/Amp®

All-In-One Mobile Communications Solution Tailored for Fleet Telematics and Vehicle Applications

Dimensions

5.8" x 4.0" x 1.2"
146 mm x 102 mm x 40 mm

Weight

8.0 oz. (227g)

Cloud Native Platform

CalAmp Telematics Cloud allows you to connect remote assets to a diverse set of vertical applications and thirdparty 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.

Vehicle Tracking Technology
Flexible • Precise • Affordable

Flexible Installation

Wired, OBDII (with optional adapter), and cigarette lighter power harness options for ready-to-use device setup

Driver Monitoring

Run time and performance diagnostics including speeding, accident detection, extreme braking and cornering, etc.

Battery Assurance

Mitigate interference or power loss with internal backup included battery

Gateway and Tag Ecosystem

Integrate with purpose-built tags and sensors for monitoring location of cargo in transit

Secure IP Router

A feature-rich LTE telematics router that comes equipped with a powerful processor, capable Linux platform featuring CalAmp's PEGTM engine and embedded development environment, enabling intelligence at the edge

Comprehensive Inputs/Outputs

Digital and Analog I/O options, triple-axis accelerometer; vehicle diagnostics available as options

LMU-5541, LTE CAT-4 | Rugged. Precise. Affordable.

Cellular/Network

Global Variant	
LTE CAT-4	2100 (B1)/1900 (B2/B25/B39)/1800 (B3)/AWS 1700 (B4)/850 (B5/B26)/2600 (B7)/900 (B8)/700 (B12/B13/B28)/850 (B18/B19)/800(B20)/2600 (B38)/2300 (B40)/2500 (B40/B41) MHz
HSPA/UMTS	2100 (I)/1900 (II)/AWS 1700 (IV)/850 (V)/800 (VI, XIX)/900 (VIII) MHz
GSM/GPRS	850/900/1800/1900 MHz

Data Support

TCP/IP, UDP/IP, DHCP, HTTP, IP Router, PPP, HTTP web server, Telnet DHCP server, DDNS, DDNS Client, NAT, NMEA, TAIP, TSIP, TFTP, IP port forwarding

Satellite Location (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Channels	55 Channel
Tracking Sensitivity	-167 dBm
Acquisition Sensitivity	-156 dBm (hot start) -148 dBm (cold start)
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

Digital Inputs	7 (high/low selectable 0-30 VDC) 1 low bias ignition
Digital Outputs	7 relay driver outputs (200mA)
Analog Inputs	5 general purpose A/D (0-30 VDC)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
1-Wire® Interface	2 (driver ID, temperature sense)
Status LEDs	5 (Pwr, COMM, GPS, Wi-Fi, BT)
Serial Interface	1 DB-9 (RS232/RS485), 1 5-Pin TTL level with switched power

Interface Standards

Bluetooth	Dual-Mode; Bluetooth classic, BLE 4.2
Heavy Duty Truck Data	802.11 a/b/g/n/ac (2.4 GHz & 5GHz) (1x1) Supports access point and/or client operations (10 concurrent users)

Cloud/Software Services[1]

CalAmp Telematics Cloud	Device data stream via RESTful APIs

Certifications

Industry Certifications	FCC, CE, IC, PTCRB, RoHS

Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 8-32 VDC (momentary)
Power Consumption	Typical <2mA @ 12V (deep sleep) Typical 20mA @12V (radio-active sleep) Typical ~300mA @ 12V (active tracking w/GPS and cell enabled)

Battery Pack

Battery Capacity	Up to 1000 mAh
Battery Technology	Lithium-Ion
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	U.S. Military Standards 202G, 810F, SAE J1455
ESD	IEC 61000-4-2 (4KV test)

Physical/Design

Dimensions	5.8" x 4.0" x 1.2" 146 mm x 102 mm x 40 mm
Weight	8.0 oz. (227g)

Connectors/SIM Access

Power, Ignition, ADC	4-Pin Connector
I/O	22-Pin Connector
GPS Antenna	External
Celllular Antenna	External
Wi-Fi Antenna	External
Cellular Diversity Antenna	External
SIM Access	Internal
Ethernet	2x 10/100 Base-T RJ45
USB	On-the-go (mini), Host Type A

Edge Intelligence[1]

PEG™	Update device functionality or develop new on the edge applications

Product Options

All necessary antennas (GPS, cellular, combined GPS/cellular)
Serial adapter cable RS-232 8-wire (PPP, AT commands, NMEA GPS output)
Internal/External/Optional jPOD™ truck ECU interface
Connectorized I/O wiring harnesses

For full tech specs visit calamp.com

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

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