

LMU-4200™

GPRS/CDMA/HSPA Series

Enterprise Location Messaging Unit

Cal/Amp®



Experience The Advantage

- GSM/GPRS, CDMA, 1xRTT, or HSPA configurations
- Dual reporting 20,000 buffered message log
- Built-in 3-axis accelerometer for driver behavior, motion sensing, hard braking and impact detection
- High sensitivity GPS
- 32 Built-in geo-fences, plus any combination of circle or polygon zones, up to 5400 points
- Garmin®, MDT, and other advanced peripherals support
- Power management sleep modes
- Comprehensive I/O
- Switched power serial ports
- 7 inputs, 5 outputs, 4 A/D Inputs
- Over-the-air configuration and firmware download

CalAmp's flagship LMU-4200 product has the features, expandability, and flexibility with the intelligence to meet all customer's ever changing needs in fleet management. The LMU-4200 offers a full set of features, comprehensive I/O system and expandable accessories that make it an industry leading value proposition. The LMU-4200 expandability and flexibility lowers the cost of delivering, supporting, and growing fleet management solutions.

Competitive Technology, Competitive Edge

The LMU-4200 is designed to support customers needing an array of vehicle interfaces. For example, the serial port supply switchable power at selectable voltages to ease the installation of peripheral data devices. The optional JPOD™ ECU (Engine Control Unit) interface reads and transmits heavy-duty engine condition and performance data such as engine temperature along with the fault codes to provide the best possible real-time picture of vehicle health.

Smart Vehicle Technology

The LMU-4200 employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). This advanced engine monitors external conditions and supports customer-defined exception-based rules to help meet the needs of your application. PEG continuously monitors the vehicle environment and responds instantaneously to pre-defined threshold conditions related to time, date, motion, location, geo-zone, input and other event combinations. With PEG™, your unique application will meet demanding customer requirements. This behavior can be programmed by CalAmp before shipment, at a customer's facility, or over-the-air once the unit has been fielded.

Over-The-Air Serviceability

The LMU-4200 also leverages CalAmp's industry leading over-the-air device management and maintenance system, PULS™ (Programming, Updates, and Logistics System). Configuration parameters, PEG™ rules, and firmware can all be updated over-the-air. PULS offers out-of-the-box hands free configuration and automatic post-installation upgrades. You can also monitor unit health status across your customers' fleets to quickly identify issues before they become expensive problems.

LMU-4200 Specifications

General

Communication Modes	GPS
Location Technology	50 channel GPS (With SBAS)
Operating Voltage	12 and 24 volt vehicle systems

GPS

Location Technology	GPS
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	2.0m
Kick Start	3 seconds @ -130 dBm
AGPS / Location assistance capable	

Cellular

Data Support	SMS, GPRS, CDMA 1xRTT	
Operating Bands (MHz band)	850/900/1800/1900	
GSM/GPRS	850/1900	
CDMA 1xRTT	800/850/900/1700/1900/2100	
HSPA/UMTS		
Transmitter Power		
GSM/GPRS	850/900	32.5 dBm
	1800/1900	29.3 dBm
	850	24 dBm
HSPA/UMTS	(all bands)	23 dBm
HSPA data rates	5.6 Mbps upload/ 7.2 Mbps download	
HSPA fallback	EDGE/GPRS/GSM quad band, EDGE MCS1-MCS9 3GPP Release 6	

Comprehensive I/O

Digital Ignition Inputs	1 fixed bias
Digital Inputs	7 (high/low selectable 0-30 VDC)
Digital Outputs	5 (open collector relay 150mA)
Current Limited Outputs	2 (20mA)
A/D Inputs	4 (0-30VDC, +/-0.1V accuracy)
1-Wire® Interface	2 (driver ID, temperature sense)
Status LEDs	GPS and cellular

Certifications

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

Development Support Options

Customized hardware and software development available on request

Electrical

Operating Voltage	7-30 VDC (momentary) 9-30 VDC (start-up, operating)
Power Consumption	4 mA @ 12V (deep sleep) 10mA @ 12V (sleep on network w/ SMS) 20mA @ 12V (sleep on network w/ GPRS) 70mA @ 12V (active tracking)
Back Up Battery (Optional)	Lithium-Ion 200mAh or 1000mAh (See technical specification online for operational changes)

About CalAmp

CalAmp (NASDAQ: CAMP) is a telematics pioneer leading transformation in a global connected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient decision making, optimizing resource utilization, and improving road safety. CalAmp is headquartered in Irvine, California and has been publicly traded since 1983. Lojack is a wholly owned subsidiary of CalAmp. For more information, visit calamp.com, or LinkedIn, Twitter, YouTube or CalAmp Blog.

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Environmental

Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage) Except Battery*
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113

Physical

Dimensions	4.3 x 3.2 x 0.86" , (110 x 81 x 22mm)
Weight	4 oz, (113 g)

Connectors, SIM Access

SIM Access	Internal
External Cellular	SMC
External GPS	SMA (with tamper monitoring, 3.0v)
4-Pin Molex	Power, ground, ignition, A/D
Two 5-Pin Molex	Switched power serial
16-Pin Molex	Expansion port
Pin Molex	I/O connection
WiFi Option	RP-SMA
Vehicle Bus Option	DB-15

Mounting

Screw mounting bracket
Tie-wrap, adhesive, or velcro

Optional Features/Functions

- External antennas (GPS, cellular, combined GPS/cellular)
- Serial adapter cable RS-232 8-wire (PPP, AT commands, NMEA GPS output)
- jPOD™ dongle for truck ECU interface
- Connectorized I/O wiring harnesses
- Built-in or external battery batteries

Cal/Amp®

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