

LMU-4200 Series

Enterprise Location Messaging Unit



Key Benefits

- GSM/GPRS or CDMA 1x cellular configurations
- 10,000 buffered message log
- 32 built in Geo-Zones, any combination of circle or polygon zones, up to 5400 points
- Built-in 3-axis accelerometer for motion sensing, hard braking, crash detection
- 8 Inputs / 8 Outputs / 4 A-to-D
- Two 1-wire® interfaces
- 3 switched power serial ports
- Configurable power save modes
- Automatic, Over-The-Air Unit Download
- Web-Based Device Management diagnostic tools
- PEG™ event configurable behavior
- Garmin MDT support

Competitive Edge

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.

Expanded Interface

The LMU-4200 is designed to support customers needing an array of vehicle interfaces. For example, the serial ports 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. In addition, the LMU-4200 offers optional WiFi and Bluetooth capabilities.

Flexibility

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 incorporates CalAmp's industry leading over-the-air device management and maintenance software, PULS™ (Programming, Update and Logistics System). Configuration parameters, PEG™ scripts, 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.

Bluetooth dongle



jPOD™ Vehicle Buss Adaptor



Optional Accessories

- External antennas (GPS, cellular, combined GPS/cellular)
- Serial adapter cable RS-232 8-wire (PPP, SLIP, AT Commands, NMEA GPS output)
- Bluetooth dongle
- jPOD dongle for truck ECU interface
- Connectorized I/O wiring harnesses

Development Support Options

- Custom Hardware and Software Development Available

LMU-4200 GPRS Specifications

Location Specifications

Location Technology	50 channel GPS (with SBAS, DGPS)
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-160 dBm
Acquisition Sensitivity	-144 dBm
Kick Start	3 sec @ -130 dBm
AGPS capable	

Communications Specifications

Data Support	SMS, GPRS (UDP), CDMA 1X packet data
Cellular/PCS:	FCC- Parts 22, 24; PTCRB
GPRS	Up to class 12
GPRS Quad Band	850/900/1800/1900 MHz
GPRS Output Power	850 (Class 4) 2W 900 (Class 4) 2W 1800 (Class 1) 1W 1900 (Class 1) 1W
CDMA Dual Band	800/1900 MHz
CDMA 1x Output Power	850 250 mW 1900 250 mW

Comprehensive I/O

- 1-Ignition input
- 7-Inputs high/low selectable inputs, 0-30 VDC
- Vehicle voltage A/D input, 0-30 VDC
- 5-Relay driver outputs (150mA)
- 2- 20mA current limited outputs
- 1-1 wire bus (iButton) for driver authentication
- 1-1 wire bus with current boost for temperature sensors
- 4-A/D Inputs, +/-0.1V accuracy and voltage range 0+-25V
- 2-built-in Status LEDs for cellular and GPS status

Optional Features (with add-on daughter boards)

- WiFi 802.11b/g/i
- jPOD Truck ECU Interface J1708, J1939

Certifications

Fully certified FCC, CE, IC, PTCRB, CARRIERS

Electrical Specifications

Operating Voltage	6 - 32V DC
Power consumption	
Deep Sleep	< 4 mA
Sleep on Network (SMS)	< 10 mA
Sleep on Network (GPRS)	< 20 mA
Active Tracking	< 70 mA

Physical Specifications

Dimensions	4.8" (L) x 3.3" (W) x 0.85" (H)
Weight	11 ounces

Environmental Specifications

Operating Temperature	-30° C to 70° C
Storage Temperature	-40° C to 85° C
Humidity	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 810G, SAE J1455
EMC/EMI	SAE J1113

Connectors

SIM Access	Internal
External Cellular	SMC
External GPS	SMA (with tamper monitoring, 3.3v)
WiFi option	RP-SMA
Vehicle Bus option	DB-15
4-Pin Molex	power, ignition, I/O
2 5-Pin Molex	Switched Power Serial
16-Pin Molex	Expansion port
22-Pin Molex	I/O connection

Mounting

- Tie wraps, adhesive or velcro
- Screw mounting bracket

