

LMU-1200 Series GPRS

Full Featured Economical GPS Tracking Unit



Key Benefits

- Economically priced device
- Superior GPS & cellular quality
- Built-in battery backup
- Built-in cellular and GPS antenna for easy installation
- Built-in 3 direction motion sense and alerting
- 4 inputs / 4 outputs
- Highly configurable
- Automatic, over-the-air configuration on power-up
- Automatic, over-the-air firmware download
- Simple, easy to use, diagnostic tools

The LMU-1200 is an economical, full-featured vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-1200 is an ideal solution for automotive insurance, stolen vehicle, vehicle finance, auto rental and other automotive tracking applications when internal back-up battery is required.

Competitive Price, Competitive Technology, Competitive Edge

The LMU-1200 high-value tracking unit from CalAmp features a small size, superior GPS performance, an internal 700 mAh back-up battery and more Inputs/Outputs (I/O). The LMU-1200 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GSM/GPRS cellular networks for installation in any 12 or 24 volt mobile vehicle.

Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the LMU-1200 mountable virtually anywhere in the vehicle for easy, inexpensive installations. Messages are transported across the GSM/GPRS network using enhanced SMS or UDP messaging providing a reliable communications link between the device and your application servers. The LMU-1200 is designed to dramatically reduce cost, power and size while significantly improving field reliability.

Flexibility

The LMU-1200 employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). This advanced application monitors vehicle conditions and supports hundreds of customized exception-based rules to help meet customers' dynamic requirements. Customers can modify the behavior of the device to meet several applications before shipment or in the field. Combining affordability and device intelligence with your unique application provides the most flexible tracking device in its class.

Over-the-Air Serviceability

The LMU-1200 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.

Key Features

- GPRS and SMS-Based Messaging
- Internal GSM and GPS Antennas
- Super Sensitive GPS (-160 dBm)
- Internal Back-up 700mAh battery
- Ultra-Low Power Safe Mode (<1mA)
- 3 Axis Accelerometer for Motion Sense
- 4 Inputs and 4 Outputs
- Voltage Monitoring and Low Battery Notification
- 2,000 Buffered Messages
- 4 Built-in Geo-fences
- PEG™ Exception-Based Rules
- Automatic, Over-The-Air Unit Configuration on Power-up (PULS™)
- Over-The-Air Firmware Download (PULS™)
- Web-Based Device Management (PULS™)

Optional Features/Functions

- Starter Interrupt Harness
- OBDII Easy Install Harness
- External GPS and Cellular Antennas
- Internal GPS and Cellular Antennas
- Serial Cable

Development Support Options

- Customized Software Features Available on Request
- Custom Development Available on Request

LMU-1200 GPRS Specifications

General Specifications

Communication Modes	GPRS packet data and SMS
Location Technology	50 Channel GPS (with WASS)
Operating Voltage	6-32 VDC

Location Specifications

Location Technology	50 Channel GPS (with WASS)
Location Accuracy	3 meter CEP (with SA off)
Tracking Sensitivity	-160 dBm (tracking)

GSM Specifications

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

Comprehensive I/O

Inputs	4
Relay Driver Outputs (150 mA)	4
Status LEDs	GPS and Cellular

Electrical Specifications

Operating Voltage	6-32 VDC
Power Consumption	
Deep Sleep	< 1 mA @ 12V
Sleep on Network	< 10 mA @ 12V
Active Standby	< 70 mA @ 12V

Physical Specifications

Dimensions	54 x 89 x 24 mm 2.125 x 3.5 x 0.93 inches
Weight	2.9oz
Status LEDs	GPS and Cellular

Environmental Specifications

Operating Temperature	-30° to +75° C
Storage Temperature	-40° to +85° C
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

Connectors, SIM Access

SIM Access	Internal
External GPS	SMA (with tamper monitoring, 3V)
External Cellular	SMC
I/O, Power, Programming	20 pin Molex-type fused power harness

Mounting

Standard Tie-wrap or Adhesive
Screw Mount Tamper-resistant / Tamper-evident Bracket

