

LMU-900 Series GPRS

Economical GPS Tracking Unit



Key Benefits

- Economically priced device
- Superior GPS & cellular quality
- 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-900 is an economical vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-900 is an ideal solution for automotive insurance, stolen vehicle, vehicle finance, auto rental and other automotive tracking applications.

Competitive Price, Competitive Technology, Competitive Edge

The LMU-900 from CalAmp is a complete vehicle tracking and communications device that features a small size, superior GPS performance and improved power management. The LMU-900 is designed to dramatically reduce cost, power and size while significantly improving field reliability.

Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the LMU-900 mountable virtually anywhere in the vehicle for easy, inexpensive installations. The LMU-900 delivers a new level in standby current consumption. The device's intelligent power management algorithms result in a deep sleep mode current of less than 1mA.

Flexibility

The LMU-900 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-900 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)
- Ultra-Low Power Safe Mode (<1mA)
- 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™)
- 3 Axis Accelerometer for Motion Sense
- 4 Inputs / 4 Outputs

Optional Features/Functions

- Starter Interrupt Harness
- OBDII Easy Install Harness
- External Backup Battery
- Serial Cable

Development Support Options

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

LMU-900 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 16 mm 2.125 x 3.5 x 0.625 inches
Weight	74g (internal)
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
I/O, Power, Programming	20 pin Molex-type fused power harness

Mounting

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

