



LMU-300™ GPRS Series

Economical GPS Tracking Unit

EXPERIENCE THE ADVANTAGE

- Economical device
- Superior GPS & cellular quality
- Built-in cellular and GPS antenna for easy installation
- Built-in backup battery option
- Built-in harness
- 3-axis accelerometer for optional motion, tilt and impact detection
- Low power sleep modes
- Up to 2 inputs and 2 outputs
- Over-the-air update capability for configuration and firmware

The LMU-300 is an economical, full-featured vehicle tracking product designed for covert and reliable installation in automobiles. The LMU-300 is an ideal solution for stolen vehicle, vehicle finance, auto rental and other automotive tracking applications.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-300 high-value tracking unit from CalAmp features a small size, superior GPS performance, an optional internal 200 mAh back-up battery, ultra low power sleep modes, 3-axis accelerometer for motion sense, and up to two Inputs/Outputs (I/O). The LMU-300 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GSM/GPRS cellular networks for installation in any 12/24 volt mobile vehicle. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the LMU-300 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-300 is designed to dramatically reduce cost, power and size while providing excellent field reliability.

FLEXIBILITY

The LMU-300 employs CalAmp's advanced industry leading on-board alert engine, PEG™ (Programmable Event Generator) to monitor external conditions and support customer-defined exception-based rules to meet your application requirements. PEG 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. 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-300 leverages CalAmp's management and maintenance system, PULS™ (Programming, Updates, and Logistics System), for over-the-air configuration parameters, PEG rules, and firmware. This out-of-the-box hands free configuration and automatic post-installation upgrades can monitor unit health status across your customers' fleets to identify issues before they become expensive problems.

LMU-300 SPECIFICATIONS

GENERAL

Communication Modes	GPRS Packet data and SMS
Location Technology	50 channel GPS
Operating Voltage	12 volt vehicle systems

GPS

Location Technology	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

CELLULAR

Data Support	SMS, GPRS (UDP)
Cellular/PCS	FCC—Parts 22, 24; PTCRB
GPRS	Up to class 10
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

Digital Inputs	Up to 2 fixed bias
Digital Outputs	Up to 2 open collector (150 mA)
Analog Inputs	1 internal VCC monitor
Status LEDs	GPS and cellular

CERTIFICATIONS

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

ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
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	

About CalAmp

CalAmp Corp. (NASDAQ: CAMP) is a proven leader in providing wireless communications solutions to a broad array of vertical market applications and customers. CalAmp's extensive portfolio of intelligent communications devices, robust and scalable cloud service platform, and targeted software applications streamline otherwise complex machine-to-machine (M2M) deployments. These solutions enable customers to optimize their operations by collecting, monitoring and efficiently reporting business critical data and desired intelligence from high-value remote assets. For more information, please visit www.calamp.com.

ELECTRICAL

Operating Voltage	7-16 VDC
Power Consumption	<2 mA @ 12/24V (deep sleep) <10 mA @ 12/24V (radio-active sleep) <60 mA @ 12/24V(active standby) <20 mA @ 12/24V (idle with IP connection open)

PHYSICAL

Dimensions	1.84 x 3.0 x 0.78", (46.5 x 77 x 19.7mm) (without harness)
Weight	3.5 oz, (99 g) (with harness)

CONNECTORS, SIM ACCESS

SIM Access	Internal
Connection Type	Captive wire harness in 2 wire, 4 wire, and 6 wire configurations

MOUNTING

Standard tie-wrap or adhesive

KEY FEATURES

- GPRS and SMS-based messaging
- Internal GSM and GPS antennas
- Super sensitive GPS (-162 dBm)
- Internal back-up 200 mAh battery option
- Ultra-low power sleep mode (<2 mA)
- 3-axis accelerometer for motion sense and tilt
- Up to 2 inputs and 2 outputs
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 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

DEVELOPMENT SUPPORT OPTIONS

- Custom hardware and software development available

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All specifications are typical and subject to change without notice

