# LMU-600<sup>™</sup> Series

BUILT-IN BATTERY ECONOMICAL GPS TRACKING UNIT

# CalAmp<sup>®</sup>

The LMU-600 series is an economical, full-featured vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-600 series 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-600 series high-value tracking unit from CalAmp features a small size, superior GPS performance, an internal 200 mAh back-up battery and Inputs/Outputs (I/O) for starter disable, panic button and other accessories. The LMU-600 series 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 and 24 volt mobile vehicle. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the LMU-600 series 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-600 series is designed to dramatically reduce cost, power and size while providing excellent field reliability.

#### Flexibility

The LMU-600 series employs CalAmp's industry leading on-board alert engine, PEG<sup>™</sup> (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-600 series also leverages CalAmp's industry leading over-the-air device management and maintenance system, PULS<sup>™</sup> (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.

# Experience The Advantage

Economical device

- Superior GPS & cellular quality
- Built-in cellular and GPS antenna for easy installation
- Built-in harness
- Lower power sleep modes
- Over-the-air update capability for configurations and firmware

# **LMU-600 Specifications**

### **General Specifications**

Communication Modes	GPRS packet data and SMS
Location Technology	50-channel GPS
Operating Voltage	12 and 24 volt systems

#### **GPS Specifications**

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

#### **Cellular Specifications**

Data Support	SMS, GPRS packet data
GPRS	Up to Class 12
Quad-Band	850/900/1800/1900 MHz
Output Power	850: 2 Watts (Class 4)
	900: 2 Watts (Class 4)
	1800: 1 Watt (Class 1)
	1900: 1 Watt (Class 1)

# Cost Reduced I/O

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

# Certifications

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

#### **Environmental Specifications**

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	

#### **Electrical Specifications**

6-32 VDC
1 mA @ 12 V (deep sleep)
10 mA @ 12 V (sleep on network)
70 mA @ 12 V (active standby)

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# **Physical Specifications**

Dimensions	2.1 x 3.6 x 0.77", (53 x 96 x 19mm)
Weight	3.7 oz, (106 g)

# **Connectors, SIM Access**

SIM Access	Internal
Connection Type	Captive 4 wire harness

#### 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
- Ultra-low power sleep mode (<1 mA)</li>
- 1 input and 1 output
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 built-in geo-fences
- PEG<sup>™</sup> exception-based rules
- Automatic, over-the-air unit configuration on power-up (PULS<sup>™</sup>)
- Over-the-air firmware download (PULS<sup>™</sup>)
- Web-based device management (PULS<sup>™</sup>)

# **Optional Features/Functions**

- Starter interrupt harness
- OBDII easy install harness
- Internal GPS and cellular antenna options

#### **Development Support Options**

Custom hardware and software development available on request



# Air Superiority™

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