

LMU-800TM GPRS/CDMA/HSPA Series

Economical GPS Tracking Unit with Built-in Backup Battery

Experience the Advantage

- GSM/GPRS, CDMA 1xRTT or HSPA configuration
- 3 Inputs/ 3 Outputs
- Superior GPS & cellular performance
- Optional internal or external cellular antennas
- Built-in backup battery
- Built-in harness
- 3-axis accelerometer for motion, tilt and impact detection
- Low power sleep modes
- Over-the-air update capability for configuration and firmware

The LMU-800 is an economical, full-featured vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-800 is an ideal solution for stolen vehicle, vehicle finance, auto rental and other automotive track and trace applications where internal back-up battery is required.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-800 high-value tracking unit from CalAmp features a small size, superior GPS performance, an internal 200 mAh back-up battery, ultra low power sleep modes, 3-axis accelerometer for motion sense, and three Inputs/three Outputs (I/O). The LMU-800 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GSM/GPRS/CDMA 1xRTT/HSPA 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-800 mountable virtually anywhere in the vehicle for easy, inexpensive installations. Messages are transported across the cellular network using enhanced SMS or UDP messaging providing a reliable communication link between the device and your application servers. The LMU-800 is designed to dramatically reduce cost of ownership, power and size while providing excellent field reliability.

FLEXIBILITY

The LMU-800employs CalAmp's advanced industry leading on-board alert engine, PEG[™] (Programmable Event Generator) to monitor external conditions and support customerdefined 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-800 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-800 Specifications

GENERAL

Communication Modes Location Technology Operating Voltage UDP Packet data and SMS 50 channel GPS 12 and 24 volt vehicle systems

GPS

Location Technology

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

CELLULAR

Data Support SM Operating Bands (MHz Band) pa GSM/GPRS 85

SMS, GPRS, CDMA 1xRTT or HSPA packet data 850/900/1800/1900 850/1900 800(VI)/850(V)/900(VIII)/ 1700(IV)/1900(II)/2100(I)

32.5 dBm

29.3 dBm

24 dBm

Transmitter Power

CDMA/1XRTT

HSPA/UMTS

GSM/GPRS	850/900
	1800/1900
CDMA/1XRTT	850
	1900
HSPA/UMTS	(all bands)
HSPA data rates	5.6 Mbps u
HSPA Fallback	EDGE/GPRS
	EDGE MCS

190023 dBm(all bands)23 dBm5.6 Mbps upload/7.2 Mbps downloadEDGE/GPRS/GSM quad bandEDGE MCS1-MCS93GPP Release 6

COMPREHENSIVE I/O

Digital Inputs3 fixed biasDigital Outputs3 open collector (150 mA)Analog Inputs1 internal VCC monitorStatus LEDsGPS and cellular

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

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perating Voltage	6-32 VDC
ower Consumption	<2 mA @ 12V (deep sleep) <10 mA @ 12V (sleep on network with SMS)
	<20 mA @ 12V (sleep on network with GPRS)
	<70 mA @ 12V (active standby)

PHYSICAL

 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 Connection Type GPS Antenna Cellular Antenna

Internal Captive 8 wire harness External SMA (with tamper monitoring, 3V) or Internal External SMC or Internal

CERTIFICATIONS

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

MOUNTING

Standard tie-wrap or adhesive

KEY FEATURES

- UDP and SMS-based messaging
- Optional Internal or external cellular and GPS antennas
- Super sensitive GPS (-162 dBm)
- Internal 200 mAh back-up battery
- Ultra-low power sleep mode (<2mA)
- 3-axis accelerometer for motion sense and tilt
- 3 inputs and 3 outputs

- Voltage monitoring and low battery notification
- 2,000 buffered messages
- Built-in harness
- 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
- Internal or external GPS and cellular antennas
- OBDII easy install harness
 Serial programming cable

DEVELOPMENT SUPPORT OPTIONS

Custom hardware and software development available

CalAmp Corp.

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