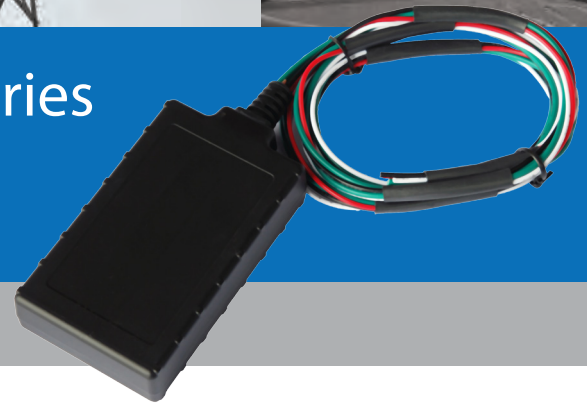


LMU-400™ GPRS/CDMA/HSPA Series

Built-In Battery Economical GPS Tracking Unit



EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT or HSPA
- Economical device
- Superior GPS and cellular performance
- Built-in cellular and GPS antenna for easy installation
- Built-in backup battery
- Built-in starter interrupt relay
- Built in buzzer
- Low power sleep modes
- Over-the-air update capability for configuring firmware
- Optional 3-axis accelerometer for motion, tilt and impact detection.

The LMU-400 is an economical, full-featured vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-400 is an ideal solution for stolen vehicle, vehicle finance, auto rental and other automotive track and trace applications when internal back-up battery is required.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-400 high-value tracking unit from CalAmp features a small size, superior GPS performance, an internal 200mAh back-up battery, ultra low power sleep modes, optional 3-axis accelerometer for motion sense, and an integrated buzzer and starter interrupt relay. The LMU-400 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GSM/GPRS/CDMA 1xRTT and 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-400 mountable virtually anywhere in the vehicle for easy, inexpensive installations. Messages are transported across the cellular network using enhanced SMS and UDP messaging providing a reliable communications link between the device and your application servers. The LMU-400 is designed to dramatically reduce the cost of ownership, power and size while providing excellent field reliability.

FLEXIBILITY

The LMU-400 employs CalAmp's advanced industry leading on-board alert engine, PEG™ (Programmable Event Generator) to monitor external conditions and support customer-define exceptions based rules to meet you 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-400 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-400 SPECIFICATIONS

GENERAL

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

GPS

Location Technology	GPS (with SBAS)
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	2.0m
AGPS / Location assistance capable	

CELLULAR

Data Support	SMS, UDP Packet data		
Operating Bands: (MHz Band)			
GSM/GPRS	850/900/1800/1900		
CDMA/1xRTT	850/1900		
HSPA/UMTS	800(VI)/850(V)/900(VIII)/ 1700(IV)/1900(II)/2100(I)		
Transmitter Power:			
GSM/GPRS	850/900	32.5	dBm
	1800/1900	29.3	dBm
CDMA/1xRTT	850	24	dBm
	1900	23	dBm
HSPA/UMTS	(all bands)	23	dBm
HSPA data rates	5.6 Mbps upload/7.2 Mbps download		
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6		

ENVIRONMENTAL

Temperature	-30° to + 75° C (connected to primary power) -40° to + 85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 801G, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

CERTIFICATIONS

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

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 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.

COMPREHENSIVE I/O

Digital Outputs	1 open collector (200mA)
Digital Inputs	1 ignition input or general purpose
Internal Relay	1 30A SPST, normally closed contacts
Status LEDs	GPS and cellular

ELECTRICAL

Operating Voltage	7-32 VDC (momentary) 9-30 VDC (start-up, operating)
Power Consumption	<2mA @ 12V (deep sleep) 10mA @ 12V (sleep on network with SMS) 20mA @ 12V (sleep on network with GPRS) 70mA @ 12V (active standby)
Back Up Battery	Lithium-Ion 200mAh (See online technical specifications for latest details regarding battery options)

PHYSICAL

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

CONNECTORS, SIM ACCESS

SIM Access	Internal Cellular
Connection Type	Captive 6 wire harness

MOUNTING

Tie-wrap or adhesive

KEY FEATURES

- UDP and SMS-based messaging
- Internal GSM and GPS antennas
- Super sensitive GPS (-162 dBm)
- Internal back-up battery 200 mAh
- Ultra low power sleep mode (<2mA)
- Internal buzzer
- Built-in starter interrupt relay
- 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 3-axis accelerometer for motion sense, tilt and impact detection

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

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All specifications are typical and subject to change without notice

