



## LMU-3000™ GPRS/CDMA/HSPA Series

GPS Tracking Unit with OBD-II Interface



### EXPERIENCE THE ADVANTAGE

- Superior GPS & cellular quality
- Built-in cellular and GPS antenna for easy installation
- Built-in OBD-II connector to read vehicle bus data
- Built-in Accelerometer for driver behavior capabilities and impact detection
- Pre-impact data capture capabilities
- Power sleep modes

The LMU-3000 is an economical, full-featured vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-3000 is an ideal solution for automotive insurance, driver behavior management, auto rental and automotive applications when access to the vehicle diagnostics interface (OBD-II) is required.

### COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-3000 full featured tracking unit from CalAmp features a small size, superior GPS design, OBD-II interface, and a 3-axis accelerometer. These features enable the LMU-3000 to access vehicle diagnostic interface data, track vehicle speed and location, plus detect hard braking, cornering or acceleration. Superior internal antennas for both cellular and GPS eliminate the need for professional installation and make the LMU-3000 install quick, easy and inexpensive. Messages are transported across the cellular network using enhanced SMS or UDP messaging providing a reliable communications link between the device and your application servers. The LMU-3000 is designed to dramatically reduce cost, power and size while significantly improving field reliability in 12 volt passenger or light-duty vehicles.

### FLEXIBILITY

The LMU-3000 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-3000 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-3000 SPECIFICATIONS

## GENERAL

Communication Modes	GPRS/EDGE/HSPA or CDMA 1xRTT packet data, UDP 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	-148dBm
AGPS Capable	

## CELLULAR

Data Support	SMS, UDP Packet data	
Operating Bands (MHz (Band))		
GSM/GPRS	850/900/1800/1900	
CDMA/1XRTT	850/1800	
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	29.5 dBm
CDMA/1XRTT	850	24 dBm
	1800	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	

## COMPREHENSIVE I/O

OBD-II Interface	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP2000, ISO-15765, CAN
Inputs	None
Outputs	None
Serial Interface	1 TTL serial
Status LEDs	GPS, OBD-II and cellular

## 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, 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](http://www.calamp.com).

## ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

## ELECTRICAL

Operating Voltage	7-20 VDC
Power Consumption	10 mA @ 12V (deep sleep ) 30 mA @ 12V (idle on network) 140 mA @ 12V (active)

## PHYSICAL

Dimensions	1.7 x 2.5 x 1", (43 x 64 x 25 mm)
Weight	1.8 oz, (51 g)

## CONNECTORS, SIM ACCESS

SIM Access	Internal
Connection Type	Built-in OBD-II interface

## MOUNTING

Built-in OBD-II connector

## KEY FEATURES

- OBD-II interface
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal cellular and GPS antennas
- Super sensitive GPS (-162 dBm tracking)
- Low power sleep mode
- 3-axis accelerometer for driver behavior and impact detection
- Voltage monitoring and low battery notification
- 20,000 buffered messages
- 32 built-in geo-fences, plus any combination of circle or polygon zones, up to 5400 points
- 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™)
- Garmin® FMI compatible interface

## OPTIONAL FEATURES/FUNCTIONS

- Serial cable
- Garmin® interface or MDT serial interface

## DEVELOPMENT SUPPORT OPTIONS

- Customized hardware and software development available on request

## CalAmp Corp.

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All specifications are typical and subject to change without notice

