



## LMU-3030™ GPRS/CDMA/HSPA Series

### GPS Tracking Unit with OBD-II Interface



### EXPERIENCE THE ADVANTAGE

- Superior cellular and GPS wireless performance
- 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
- Up to 20,000 buffered messages
- Optional Bluetooth 4.0 dual mode interface
- Over-the-air configuration and firmware download
- OBD-II comprehensive I/O

The LMU-3030 is an economical, full featured vehicle tracking product designed for easy and reliable installation in automobiles. The LMU-3030 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-3030 full featured tracking unit from CalAmp features a small size, superior GPS design, OBD-II interface, and 3-axis accelerometer. These features enable the LMU-3030 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-3030 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-3030 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-3030 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 combinations 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-3030 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-3030 SPECIFICATIONS

## GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50+ channel GPS (with SBAS)
Messages	20,000 buffered messages
Geo-Fence	32 PEG-Zones (rectangular/circular) 1024 Geo-Zones (polygon/circular - 5400)
Configuration	Automatic over-the-air firmware and configuration updates via PULS™

## GPS

Location Technology	GPS
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-148 dBm
Location Accuracy	2.0m
AGPS 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	29.5	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		

## CERTIFICATIONS

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

## DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

## MOUNTING

Via built-in OBD-II connector  
Self-adhesive mounting with OBD-II extender cable

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

## COMPREHENSIVE I/O

OBD-II Interface	OBD-II interface: J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP 2000, ISO-15765 CAN
Outputs	None
Communications Status	LED's: OBD, Cellular and GPS
Bluetooth	Bluetooth 4.0 Dual Mode (optional fit)

## ENVIRONMENTAL

Temperature*	-30° to + 75° C (connected to primary power) -40° to + 85° C (storage) Except Battery*
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	CE, GCF, eMark
RoHS Compliant	

## PHYSICAL

Dimensions	1.5 x 2.5 x 0.98" (43 x 64 x 25mm)
Weight	1.83oz / 52g (with battery)
Enclosure	Rugged textured plastic enclosure

## CONNECTORS, SIM ACCESS

SIM Access	Internal
Built-in OBD-II/EOBD-II interface	via J1962 compliant connector

## ELECTRICAL

Operating Voltage	9-16 VDC Vehicle Systems
Sleep Mode	4.9mA @ 13V (deep sleep ) 83mA @ 13V (normal operation) 66mA @ 13V (SMS+UDP connection, GPS off) 114mA @ 13V (continuous transmit)

## OBD DATA EXTRACTION

Detection	Automatic detection of vehicle interface services
Extraction	Transmission of standard OBD2 codes, plus manufacturer specific codes which are made available by the embedded OBD firmware stack
Scripts	Download of vehicle specific diagnostic scripts dependent on vehicle model variant

## KEY FEATURES

- Low power sleep modes
- Superior GPS and cellular performance
- Built-in 3-axis accelerometer for motion, tilt, and impact detection
- Built-in OBD-II connector to read vehicle bus data
- Built-in cellular and GPS antenna
- 32 PEG-zones, 1024 Geo-zones (5400 points)
- 20,000 buffered messages
- Optional OBD-II connector cables
- Optional splitters and extensions
- Optional serial cable

## CalAmp Corp.

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All specifications are typical and subject to change without notice

