

# LMU-3030™ Series

OBD-II Tracking Units for the Connected Car Market

Cal/Amp®



## Experience The Advantage

- Optimized for a diverse range of applications
- Reliable self-installation ideal for connected car applications
- Superior cellular and GPS performance
- OBD-II connector to read vehicle bus data
- Patented triple-axis accelerometer for driver behavior capabilities and impact detection
- Low power sleep modes for longer life
- Optional Bluetooth 4.0 dual mode interface

The LMU-3030 series provides a range of easy-to-install cost optimized vehicle tracking devices designed to meet the needs of the growing connected car market. The LMU-3030 series delivers access to the vehicle diagnostics interface ideal for insurance applications, driver behavior management, auto rental and automotive applications in passenger or light-duty vehicles.

## Competitive Technology, Competitive Edge

The LMU-3030 series from CalAmp features devices with a compact form factor, high-sensitivity GPS for reliable location and tracking, an Onboard Diagnostic interface (OBD-II) for access vehicle diagnostic data, and patented triple-axis accelerometer motion sensing technology for detecting aggressive driving maneuvers such as harsh acceleration, braking and cornering, and high-impact events.

## Smart Vehicle Technology

The LMU-3030 family of devices are enabled with PEG™, CalAmp's proprietary programmable event generator to continuously monitor the vehicle operating environment and respond instantly to pre-defined and configurable threshold conditions such as motion, location, geo-zone crossings and custom parameters.

## Over-The-Air Serviceability

The LMU-3030 series incorporates PULS™, CalAmp's industry leading over-the-air device management and maintenance software. With PULS, customers can manage devices individually or by groups and configure parameters including PEG scripts and firmware remotely. PULS offers out-of-the-box, hands-free configuration and automatic post-installation upgrades to monitor device health status to quickly identify issues before they become expensive problems.

# LMU-3030 Specifications

## General

Communication Modes	GPRS, HSPA and LTE Cat 1 options
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	UDP, TCP/IP and SMS packet data
Operating Bands (MHz band)	
GSM/GPRS	850/900/1800/1900
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
HSPA/UMTS	(all bands)                  23 dBm
LTE Cat 1	ATT: Bands 2, 4, 5, 12, and 13; plus HSPA fallback (Bands 2 and 5)
	Verizon: Bands 2, 4, and 13
HSPA data rates	5.6 Mbps up / 7.2 Mbps down
LTE Cat 1 Data Rates	5 Mbps up / 10Mbps down
HSPA Fallback	EDGE/GPRS/GSM quad band

## 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

## 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
Serial Port	2-wire TTL Serial Interface (optional fit)
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

## 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 OBD-II 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

## About CalAmp

CalAmp (NASDAQ: CAMP) is a telematics pioneer leading transformation in a global connected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient decision making, optimizing resource utilization, and improving road safety. CalAmp is headquartered in Irvine, California and has been publicly traded since 1983. Lojack is a wholly owned subsidiary of CalAmp. For more information, visit [calamp.com](http://calamp.com), or LinkedIn, Twitter, YouTube or CalAmp Blog.

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