

# Cal Amp

# LMU-3030

# Series

OBD-II Tracking Units for the  
Connected Car Market

## 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 Techology	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	1800/1900	32.5 dBm 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