

## SPECIFICATIONS

### GENERAL

COMMUNICATION MODES	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
MESSAGES	20,000 buffered messages
GEOFENCE	32 PEG-Zones (rectangular/circular) 1024 Geo-Zones (polygon/circular - 5400)
CONFIGURATION	Automatic over-air-firmware and configuration updates via PULS™

### CELLULAR

DATA SUPPORT	SMS, UDP Packet data
OPERATING BANDS	GSM/GPRS: 850/900/1800/1900 CDMA/1xRTT: 850/1900 HSPA/UMTS: 800(VI)/850(V)/900(VIII)/1700(IV)/1900(II)/2100(I)
TRANSMITTING POWER	GSM/GPRS: 850/900, 32.5 dBm and 1800/1900, 29.5 dBm CDMA/1xRTT: 850, 24 dBm and 1900, 23 dBm HSPA/UMTS: All bands, 23 dBm
HSPA DATA RATES	5.6 Mbps upload/7.2 Mbps download
HSPA FALL BACK	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6

### 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	Yes

### CONNECTORS & SIM ACCESS

CONNECTION TYPE	Built-in OBD-II/EOBDII interface via J1962 compliant connector
SIM ACCESS	Internal - SIM fitted during manufacturing

### CERTIFICATIONS

CERTIFICATIONS	Fully certified FCC, CE, IC, PTCRB, applicable carriers
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### MOUNTING

MOUNTING	Built-in OBD-II connector Self-adhesive mounting with OBD-II extender cable
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### 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	Yes

### INTERFACES

OBD-II INTERFACE	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP2000, ISO-15765, CAN
OUTPUTS	None
BLUETOOTH	Bluetooth 4.0 Dual Mode (optional fit)
STATUS LEDS	GPS, OBD-II and cellular

### ELECTRICAL

OPERATING VOLTAGE	9-16 VDC Vehicle Systems
INTERNAL BATTERY	200mAH
SLEEP MODE	Ultra low power sleep < 3mA

### PHYSICAL

DIMENSIONS	43 x 64 x 25 mm
WEIGHT	< 52 g
ENCLOSURE	Rugged textured plastic enclosure
COMMUNICATIONS	OBD, Cellular and GPS
ACCELEROMETER	3 axis 16g, sampling at 400Hz for driver behavior and crash detection

### OPTIONAL FEATURES / FUNCTIONS

OPTIONAL FEATURES / FUNCTIONS	OBD-II Connector Cables Splitters and Extensions Serial Cable Optional Bluetooth
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### OBD DATA EXTRACTION

DETECTION EXTRACTION	Automatic detection of vehicle interface services Transmission of standard EOBD codes, plus manufacturer specific codes which are made available by OBD firmware stack
SCRIPTS	Download of vehicle specific diagnostic scripts dependent on vehicle model variant

ALL SPECIFICATIONS ARE TYPICAL AND SUBJECT TO CHANGE WITHOUT NOTICE.

## REGULATORY INFORMATION

### INTENDED USE

#### WHAT IS THE CALAMP LMU-3030?

The LMU-3030 is a small device powered by a vehicle designed to provide wireless connectivity. Specifically, the LMU-3030 full-featured tracking unit from CalAmp features small size, superior GPS performance, OBD-II interface, backup battery, and a 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, acceleration and capture pre and post-impact data. 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 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-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 fleet to identify issues before they become expensive problems.

## SAFETY AND WIRELESS DEVICES

Scientific research on wireless devices and radio frequency ("RF") energy has been conducted worldwide for many years, and continues. In the United States, the Food and Drug Administration (FDA) and the Federal Communications Commission (FCC) set policies and procedures for wireless devices. The FDA issued a website publication on health issues related to usage of cell phones where it states, "The scientific community at large believes that the weight of the scientific evidence does not show an association between exposure to RF from cell phones and adverse health outcomes." Still, the scientific community does recommend conducting additional research to address gaps in knowledge. That research is being conducted around the world, and the FDA continues to monitor developments in this field. You can access the FDA website at <http://www.fda.gov> (under "C" in the subject index, select Cell Phones > Research). You can also contact the FDA toll free at (888) 463-6332 or (888) INFO-FDA. The FCC issued its own website publication stating that "there is no scientific evidence that proves that wireless telephone usage can lead to cancer or other problems, including headaches, dizziness, or memory loss." The publication is available at <http://www.fcc.gov/cgb/cellular.html> or through the FCC at (888) 225 5322 or (888) CALL-FCC. The National Cancer Institute (NCI) states that concerns about the potential health effects of using cellular phones - "and specifically the suggestion that using a cell phone may increase a person's risk of developing brain cancer - are not supported - by a growing body of research on the subject."

## CAN I MINIMIZE MY RF EXPOSURE?

If you are concerned about RF, there are several simple steps you can take to minimize your RF exposure. You can minimize usage of the device near the body. You can also place more distance between your body and the source of the RF, as the exposure level drops off dramatically with distance. Wireless devices marketed in the United States are required to meet safety requirements regardless of whether they are used against the head or against the body.

## WHERE CAN I OBTAIN FURTHER INFORMATION?

For further information, see the following additional resources:

U.S. Food and Drug Administration  
10903 New Hampshire Avenue  
Silver Spring, MD 20993  
1-888-INFO-FDA (1-888-463-6332)  
<http://www.fda.gov>

Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554  
<http://www.fcc.gov>

American National Standards Institute  
1899 L Street NW, 11th Floor  
Washington D.C., 20036  
1-202-293-8020  
<http://www.ansi.org>

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