



# LMU-2620™ Series

## Fleet Tracking Unit with Leading Technologies

The LMU-2620 fleet tracking unit offers leading edge fleet management features including a triple-axis accelerometer for measuring driver behavior and vehicle impacts while offering the high reliability fleet customers demand.

### COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-2620 is a robust, affordable device you can count on for AVL and fleet applications. The LMU-2620 incorporates GSM/GPRS, CDMA 1xRTT, or HSPA wireless communication along with extra-sensitive GPS, a powerful processing engine, and a triple-axis accelerometer that detects and acts on hard braking, aggressive acceleration, or vehicle impacts. Internal or external antenna options enables the device to be mounted virtually anywhere for easy, inexpensive installations.

### FLEXIBILITY

The LMU-2620 employs CalAmp's industry leading on-board engine, PEG™ (Programmable Event Generator). This advanced engine monitors external conditions and supports customer-defined exception-based rules to help meet the needs of your application. PEG™ continuously monitors the vehicle environment and responds instantaneously to pre-defines 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. With PEG™, your unique application will meet demanding customer requirements and give you a distinct advantage over your competition.

### OVER-THE-AIR SERVICEABILITY

The LMU-2620 also leverages CalAmp's industry leading over-the-air device management and maintenance system, PULS™ (Programming, Updates, and Logistics System). Configuration parameters, PEG™ rules, and firmware can all be updated over-the-air. PULS™ offers out-of-the-box hands-free configuration and automatic post-installation upgrades. You can also monitor unit health status across your customers' fleets to quickly identify issues before they become expensive problems.



### Experience The Advantage

- GSM, CDMA 1xRTT, or HSPA configurations
- Internal or external cellular and GPS antenna options for easy installation
- High sensitivity GPS
- Triple-axis precision accelerometer for driver behavior and impact detection
- 20,000 buffered message log
- 32 geo-fence capability
- 5 inputs/3 outputs/1-wire® interface for driver ID, temperature sensors, and more
- Dual switched power serial ports
- Garmin®, Magellan, and other advanced peripheral support
- Power management sleep modes
- Automatic, over-the-air configuration and firmware download

# LMU-2620 TECHNICAL SPECIFICATIONS

## GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50 channel GPS
Operating Voltage	12 and 24 volt vehicle systems

## GPS

Location Technology	GPS
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Receiver Type	50 channels
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	2.0m
AGPS Capable	

## CELLULAR

Data Support	SMS, UDP packet data
Operating Bands (MHz)	
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       29.3 dBm
CDMA/1xRTT	850               24 dBm 1900              23 dBm
HSPA/UMTS	(all bands)       23 dBm
HSPA data rates	5.6Mbps upload/7.2 Mbps download
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6

## COMPREHENSIVE I/O

Digital Inputs	5 (1 fixed bias low, 4 programmable bias)
Digital Outputs	3 relay driver outputs (200mA)
Serial Interface	2 (1 TTL serial, 1 switched power TTL)
Analog Inputs	2 (1 interval VCC monitor, 1 external A/D input)
1-Wire® Interface	Driver ID, temperature sense
Status LEDs	GPS and cellular

## ENVIRONMENTAL

Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada; RoHS Compliant

## PHYSICAL

Dimensions	2 x 4 x 0.85", (51 x 102 x 22mm)
Weight	74 g (external), 85 g (internal)

## MOUNTING

Tie-wrap, adhesive, or velcro

## CONNECTORS, SIM ACCESS

Connection Type	20-pin Molex-type fused power harness
GPS antenna	External SMA or internal (w/ tamper monitoring, 3V)
Cellular Antenna	External SMC or internal
SIM Access	Internal (GSM/GPRS or HSPA variant only)

## CERTIFICATIONS

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

## ELECTRICAL

Operating Voltage	7-32 VDC (momentary) 9-30 VDC (start-up, operating)
Power Consumption	<4 mA @ 12V (deep sleep) <19mA @ 12V (radio-active sleep) <17mA @ 12V (SMS+UDP connection, GPS off) <60mA @ 12V (continuous transmit)
Back Up Battery (Optional)	Lithium-Ion 200mAh or 1000mAh (See technical specifications online for operational changes)

## DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request