



LMU-2620™ GPRS/CDMA/HSPA Series

Fleet Tracking Unit with Leading Technologies



EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT, or HSPA configurations
- Internal or external cellular and GPS antenna options for easy installation
- High sensitivity GPS
- 3-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

The LMU-2620 fleet tracking unit offers leading edge fleet management features including a 3-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 3-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-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. 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.

LMU-2620 SPECIFICATIONS

GENERAL

Communication Modes	GPRS/EDGE/HSMA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50 channel GPS
Operating Voltage	12/24 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 (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

MOUNTING

Tie-wrap, adhesive, or velcro

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

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.

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)

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)

OPTIONAL FEATURES/FUNCTIONS

- Driver ID with 1-wire® protocol
- Temperature sensing via 1-Wire® protocol
- Backup battery
- External GPS and cellular antennas
- Internal GPS and cellular antennas
- NMEA data via serial
- External A/D input
- Serial cables
- jPOD™ truck ECU interface
- Garmin®, Magellan, and other advanced peripherals support
- Piezo speaker, panic button, and privacy button
- Power harness with two (2) 3A fuses
- External vPOD™ OBD-II/EOBD-II interface via J1962 compliant connector

CalAmp Corp.

2177 Salk Avenue, Suite 200, Carlsbad, CA 92008

T: 760.438.9010 | F: 760.438.5835

CalAmp Corp. | www.calamp.com

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All specifications are typical and subject to change without notice

