LMU-2700™ 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

- 3-axis precision accelerometer for driver behavior and impact detection

- 1000 mAh internal back-up battery

- 5 inputs/3 outputs/1-wire® interface for driver ID, temperature sensors, and more

- 20,000 buffered message log

- Garmin® FMI and MDT support

- Highly configurable

- Dual serial ports

- Power management sleep modes

- Over-the-air configuration and firmware updates

- 32 geo-fence capability

The LMU-2700 fleet tracking unit offers leading edge technology including a new 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-2700 is a robust fleet device you can count on for AVL applications. The LMU-2700 incorporates GSM/GPRS, CDMA 1xRTT or HSPA wireless communication along with extra sensitive GPS technology in an affordable package. High sensitivity GPS and either internal or external antenna options enables the device to be mounted virtually anywhere for easy, inexpensive installations. An integrated 1,000mAh back-up battery allows for short-term or last-gasp tracking when disconnected from main power. The LMU-2700 also features a 3-axis accelerometer to detect and act on hard braking, aggressive acceleration, and vehicle impacts.

FLEXIBILITY

The LMU-2700 employs CalAmp's industry leading on-board alert 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-2700 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-2700 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	50 channel GPS (with SBAS)
	SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

CELLULAR

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
Operating Bands (MHz)	
GSM/GPRS	850/900/1800/1900
CDMA/1XRTT	850/1800
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
	1800 — 23 dBm
HSPA/UMTS	(all bands) — 23 dBm
HSPA data rates	5.6 Mbps 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 (200 mA)
Serial Interface	2 (1 TTL serial, 1 switched power TTL)
Analog Inputs	2 (1 internal VCC monitor, 1 external A/D input)
1-Wire® Interface	Driver ID, temperature sense
Status LEDs	GPS and cellular

ENVIRONMENTAL

Temperature	-30º to +75º C (operating)
	-40º to +85º C (storage)
Humidity	95%RH @ 50º 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	

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, robust and scalable cloud service platform, and targeted software applications 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.

ELECTRICAL

Operating Voltage	6-32 VDC
Power Consumption	3 mA @ 12V (deep sleep)
	10 mA @ 12 V (sleep on network with SMS)
	20 mA @ 12 V (sleep on network with GPRS)
	70 mA @ 12 V (active tracking)

PHYSICAL

Dimensions	90 x 54 x 20 mm
Weight	74 g (external), 85 g (internal) estimated

CONNECTORS, SIM ACCESS

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

CERTIFICATIONS

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

MOUNTING

Tie-wrap, adhesive, or Velcro; Screw mounting bracket

KEY FEATURES

- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal or external cellular and GPS antennas
- High sensitivity GPS (-162 dBm tracking)
- Low power sleep modes
- Internal or external cellular and GPS antennas
- Internal 1000 mAh back-up battery
- 3-axis accelerometer for motion, hard braking/acceleration, and impact detection
- Voltage monitoring and low battery notification
- 20,000 buffered messages for data logging during coverage loss
- 32 built-in geo-fences
- Dual serial ports
- PEG™ exception-based rules
- Automatic, over-the-air unit configuration on power-up (PULS™)
- Over-the-air firmware download (PULS™)
- Web-based device management (PULS™)

OPTIONAL FEATURES/FUNCTIONS

- Driver ID with 1-wire® protocol
- Temperature sensing via 1-wire® protocol
- Internal or external GPS and cellular antennas
- NMEA data via serial
- External A/D input
- Serial cables
- jPOD™ truck ECU interface
- Garmin® FMI compatible interface
- Piezo speaker, panic button, and privacy button
- Power harness with two (2) 3A fuses

DEVELOPMENT SUPPORT OPTIONS

- Customized hardware and software development available on request

CalAmp Corp.
1401 N. Rice Avenue, Oxnard, CA 93030
T: 805.987.9000 l F: 805.987.8359
www.calamp.com

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