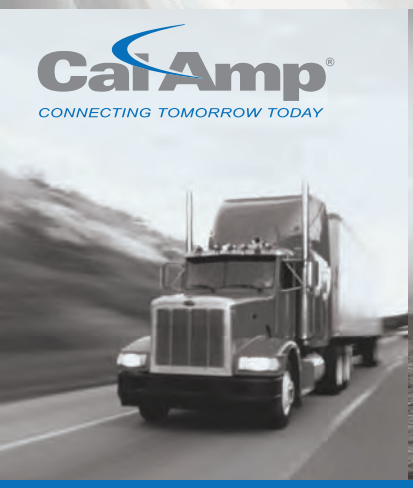
CalAmp
CONNECTING TOMORROW TODAY




LMU-2720™ 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®, Magellin, and other advanced peripheral support
- Power management sleep modes
- Automatic, over-the-air configuration and firmware download
- Internal 1000mAh internal back-up battery

The LMU-2720 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-2720 is a robust, affordable device you can count on for AVL and fleet applications The LMU-2720 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 the main power. The LMU-2720 also features a 3-axis accelerometer to detect and act on hard braking, aggressive acceleration, and vehicle impacts.

FLEXIBILITY

The LMU-2720 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 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-2720 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-2720 SPECIFICATIONS

GENERAL

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

GPS

Location Technology	GPS; GLONASS, and QZSS capable
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS
Receiver Type	56 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
Screw mounting bracket

PHYSICAL

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

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

CERTIFICATIONS

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

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	

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)

ELECTRICAL

Operating Voltage	7-32 VDC (momentary) 9-30 VDC (startup, operating)
Power Consumption	<3 mA @ 12V (deep sleep) <10mA @ 12V (sleep on network with SMS) <20mA @ 12V (sleep on network with GPRS) <70mA @ 12V (active tracking)
Back Up Battery	(Optional)Lithium-Ion 200mAh or 1000mAh (See technical specifications online for operational changes)

KEY FEATURES

- Packet data (GPRS, CDMA 1xRTT or HSPA and SMS based messaging
- Internal or external GPS and cellular antennas
- High sensitivity GPS (-162dBm)
- Low power sleep modes
- Internal 1000mAh back-up battery
- 3-axis accelerometer for motion, hard braking and impact detection
- 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 and firmware download (PULS™)
- Web based device management (PULS™)

OPTIONAL FEATURES/FUNCTIONS

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

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