LMU-2730™ GPRS/CDMA/HSPA/LTE Series

Fleet Tracking Unit with Leading Technologies

EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT, HSPA or LTE configurations

- Load dump protection designed for 12/24 volt systems

- Optional bluetooth 4.0 classic or bluetooth low energy

- High sensitivity GPS

- Built-in 3-axis accelerometer for driver behavior, Motion sensing, hard braking, impact detection

- 20,000 buffered message log

- 32 built-in geo-fences, plus any combination of circle or polygon zones, up to 5400 points

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

- Dual switched power serial ports

- Internal or external cellular and GPS antenna options for easy installation

- Android™, Magellan®, Garmin®, TomTom® MDTs and other advanced peripherals support

- Optional 1000mAh or 200mAh back-up battery

- Power management sleep modes

- Automatic, over-the-air configuration and firmware download

The LMU-2730 fleet tracking unit offers leading edge fleet management features including load dump protection from high voltage swings on 12/24 volt systems, 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-2730 is a robust, affordable device you can count on for AVL and fleet applications The LMU-2730 incorporates GSM/GPRS, CDMA 1xRTT, HSPA, or LTE 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. The LMU-2730's load dump protection ensures that the device is protected up to 170 volt swings. Internal or external antenna options enables the device to be mounted virtually anywhere for easy, inexpensive installations.

FLEXIBILITY

The LMU-2730 employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). This advanced engine monitors external conditions and supports custom 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-2730 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-2730 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, GAGAN
Receiver Type	56 channels
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-148 dBm
Location Accuracy	2.0m
Location Update Rate	up to 10 Hz

Anti-jamming
AGPS / Location assistance capable

CELLULAR

Data Support	SMS, UDP packet data

Operating Bands (MHz)

GSM/GPRS	850/900/1800/1900
CDMA/1xRTT	850/1900
HSPA/UMTS	850/1900

Transmitter Power

GSM/GPRS	850/900	32.5 dBm
	1800/1900	29.3 dBm
CDMA/1xRTT	850	24 dBm
	1900	23 dBM
HSPA/UMTS	850/1900	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 power TTL ports
Analog Inputs	2 (1 interval VCC monitor, 1 external A/D input)
1-Wire® Interface	Driver ID, temperature sense
Status LEDs	GPS and cellular

CERTIFICATIONS

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

MOUNTING

Tie-wrap, adhesive, or velcro
Screw mounting bracket

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	3.684 x 2.002 x 0.775", (93.57 x 52.88 x 19.68mm)
Weight	2.4oz, (68.03g)

CONNECTORS, SIM ACCESS

Connection Type	20-pin Molex-type or captive 2,6 or 10-wire 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

Load Dump Protection	12/24 volt systems up to 170 volts SAE J1113-11 Compliant
Source Impendance	1 to 8ohms
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 UDP)
	<70mA @ 12V (active tracking)
Back Up Battery	(Optional) Lithium-Ion 200mAh or 1000mAh (See technical specifications online for operational temperature impacts)

OPTIONAL FEATURES/FUNCTIONS

- Driver ID with 1-wire® protocol
- Load dump protection designed to handle high voltage swings on 12/24 volt systems
- Temperature sensing via 1-Wire® protocol
- Optional Back-up battery 1000mah or 200mah
- External GPS and cellular antennas
- NMEA data via serial
- Bluetooth classic 4.0 or BLE
- External A/D input
- Serial cables
- jPOD™ truck ECU interface
- vPOD™ OBDII interface
- Android™, Magellan®, Garmin®, TomTom® MDTs and other advanced peripherals support
- 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

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