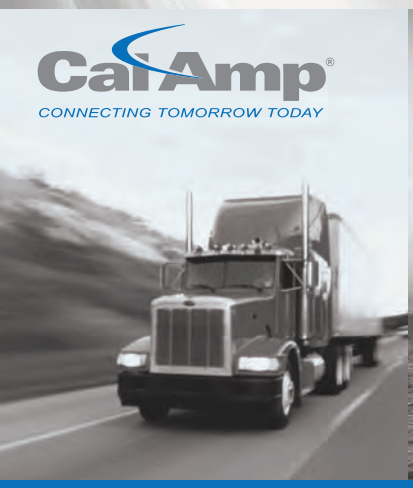
CalAmp
CONNECTING TOMORROW TODAY




LMU-1175™ GPRS/CDMA/HSPA Series

Water Resistant GPS Tracking Unit

EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT or HSPA configuration
- Water resistant
- Built-in 1000mAh back-up battery
- Built-in 3-axis motion sense and tilt alerting
- Built-in cellular and GPS antenna for easy installation
- Input/output configuration to support up to 2 inputs, 1 output, 1-Wire® interface for temperature sensors
- Superior GPS and cellular performance
- Low power sleep modes
- Over-th-air update capability for configuration and firmware
- IP66 sealed enclosure

The LMU-1175 is an economical, fully-sealed vehicle tracking product designed for easy and reliable installation in recreational vehicles and assets with outdoor exposure. The LMU-1175 is an ideal solution for asset monitoring and theft recovery for motorcycles, snowmobiles and other outdoor recreational vehicles.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-1175 high-value tracking device from CalAmp features a small size, superior GPS performance, an internal 1000 mAh back-up-battery and 2 Inputs/ 1 output (I/O), The next-generation, super sensitive GPS technology on cellular networks for installation in any 12 or 24 volt mobile vehicle. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the LMU-1175 mountable virtually anywhere on or in the vehicle for easy, inexpensive installations. Messages are transported across the cellular network using enhanced SMS or UDP messaging providing a reliable communications link between the device and your application servers. The LMU-1175 is designed to dramatically reduce cost of ownership, power and size while providing excellent field reliability.

FLEXIBILITY

The LMU-1175 employs CalAmp's advanced industry leading on-board alert engine, PEG™ (programmable Event Generator) to monitor external conditions and support customer-defined exception-based rules to meet your application requirements. PEG 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.

OVER-THE-AIR SERVICEABILITY

The LMU-1175 leverages CalAmp's management and maintenance system, PLUS™ (Programming, Updates, and Logistics System), for over-the-air configuration parameters, PEG rules, and firmware. This out-of-the-box hands free configuration and automatic post-installation upgrades can monitor unit health status across your customers' fleets to identify issues before they become expensive problems.

LMU-1175 SPECIFICATIONS

GENERAL

Communication Modes	UDP packet data and SMS
Location Technology	50 channel GPS
Operating Voltage	12 and 24 volt vehicle systems

GPS

Location Technology	GPS
Enhancement Technology	WAAS
Tracking Sensitivity	-160 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	
Operating Bands (MHz)		
GSM/GPRS	850/900/1800/1900	
CDMA/1XRTT	850/1900	
HSPA/UMTS	800(VI)/850(V)/900(VII)/ 1700(IV)/1900(II)/2100(I)	
Transmitter Power		
GSM/GPRS	850/900	32.5 dBm
	1800/1900	29.3 dBm
	850	24 dBm
CDMA/1XRTT	1900	23 dBm
HSPA/UMTS	(all bands)	23 dBm
HSPA data rates	5.6 Mbps upload/ 7.2 Mpbs download	
HSPA Fallback	EDGE/GPRS/GSM quad band	
	EDGE MCS1-MCS9	
	3GPP Release 6	

COMPREHENSIVE I/O

Digital Inputs	2 external and 4 internal
Digital Outputs	1 relay driver (150mA)
1-Wire® Interface	1 for temperature sensors
Status LED's	GPS and Cellular

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

CERTIFICATIONS

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

MOUNTING

Standard tie-wrap or adhesive, Screw mount bracket

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
Rohas Compliant	
Water Resistant Enclosure	

ELECTRICAL

Input Voltage	9-30 VDC (startup, operating) 7-32 VDC (momentary)
Power Consumption	1.1mA @ 12 VDC (deep sleep) 13mA @ 12 VDC (radio-active sleep) 18mA @ 12 VDC (SMS+UDP connection, GPS off) 190mA @ 12 VDC (continuous transmit)
Back Up Battery	Lithium-Ion 700mAh (See technical specifications online for operational changes)

PHYSICAL

Dimensions	2.9" x 2.8" x 0.78", (75x 71 x 20mm)
Weight	4.8oz, (136g)

CONNECTORS, SIM ACCESS

SIM Access	Internal
Connection Type	Molded power and I/O harness

KEY FEATURES

- UDP and SMS messaging
- Water resistant
- Internal cellular and GPS antennas
- Super sensitive GPS (-160dBm)
- Internal 700mAh back-up battery
- Ultra-low power sleep mode(<1mA)
- 3-axis accelerometer for motion sense and tilt
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 built-in geo-fences
- 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

- Temperature sensing via 1-Wire® protocol
- Serial cable

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.

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