LMU-4100™ GPRS

Location Messaging Unit

Accessories

Plug-In Bluetooth Module

ioPOD™ Adapter

The LMU-4100 features cutting-edge technology in an affordable location device with the smarts to help meet customers' ever changing requirements. Our 5th generation GPS-based LMU offers technology and pricing advantages that lower the cost of delivering, supporting, and growing fleet-management solutions.

Competitive Edge

CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator), enables users to define a set of advanced exception rules in the LMU-4100. 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. With PEG, your unique application will meet demanding customer requirements and leave competitors grasping for answers.

Built-In Serviceability

Maintenance and support costs for installed devices can quickly get out of hand. To minimize this risk, configuration parameters, PEG rules, and firmware can all be updated over the air. And with our web-based maintenance server you can schedule these updates for automatic delivery plus monitor unit health status across your customers' fleets.

CalAmp Experience

Since 1998, government, Fortune 100, and small fleets have installed LMUs, but it is our customers - application service providers and system integrators - that have driven us to meet exceptional reliability and competitive challenges. For example, this 5th generation design meets strict U.S. Military and SAE specifications for harsh environments. It stores up to 10,000 events to ensure information is delivered. And its expandable design for Bluetooth, extra I/O, and up to 2 serial ports offers maximum flexibility.

Expanded Interface

The ioPOD and Bluetooth options give the LMU-4000 expandable functionality to support those customers needing an array of vehicle interfaces. The ioPOD provides up to 11 more inputs/outputs and 2 serial ports for integration with on-board equipment. The Bluetooth plug-in module lets you communicate with other Bluetooth devices in the vehicle. Smart engineering saves upfront costs while allowing your solutions to expand with customers' changing needs.

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LMU-4100™ GPRS Specifications

Technical Specifications

Location Technology	16 channel GPS (with WAAS)
Location Accuracy	3 meter CEP (with SA off)
Communication Modes	Supports GPRS packet data and SMS

Environmental Specifications

Operating Temperature	-30° C to 65° C
Storage Temperature	-40° C to 85° C
Humidity	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 810F, SAE J1455
EMC/EMI	SAE J1113

Connectors

- SMC (cellular antenna)
- SMA (GPS antenna with tamper monitoring, 3.3v)
- 8 Pin Molex (power, ignition, I/O)
- 16 Pin Molex (for optional adapter cables)

Comprehensive I/O

- Ignition input
- Relay driver output (150 mA)
- 2 Inputs, high/low selectable
- 2 programmable I/O
  - input, high/low selectable
  - output, relay driver (150 mA)
- Vehicle voltage A/D input
- 1wire bus (iButton) for driver authentication
- 2 built-in LEDs for cellular and GPS status
- 3-wire harness included
- Optional serial adapter (see Optional Accessories)
- Optional ioPOD™ adapter (see Optional Accessories)

Physical Specifications

Dimensions	4.8" (L) x 3.3" (W) x 1.1" (H)
Weight	9 ounces

Electrical Specifications

Power source	9 - 32V DC
Power consumption (active)	< 500 mA at 12V
Power consumption (sleep)	< 10 mA

Peripheral Device Support (with add-on adapters)

- User data (smart/dumb terminals, data collection, device control, barcode readers, RFID)
- NMEA GPS output (in-vehicle mapping)
- IP access via PPP or SLIP (laptops, PDAs)
- Dallas iButton for driver ID

Mounting

- Tie wraps or screw mount

Optional Accessories

- All necessary antennas (GPS, cellular, combined GPS/cellular)
- Serial adapter cable
  - RS-232 8-wire (PPP, SLIP, AT Commands, NMEA GPS output)
- Bluetooth plug-in module
- ioPOD™ adapter cable
  - Host Serial RS-232, 8-wire (PPP, SLIP, AT Commands, NMEA GPS output)
  - Aux Serial RS-232, 3-wire
  - 3 inputs, high/low selectable
  - 4 A/D inputs
  - 4 relay driver outputs (150 mA)
- Add-on wires for standard harness
- Mounting Strip

Warranty

- One (1) year parts and labor

CalAmp®

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