LMU-2500 GPRS

Fleet Tracking Unit with Superior GPS Technology

Key Benefits

- Economically priced device
- Superior GPS quality
- Highly configurable
- Built-in antenna option for easy installation
- Built-in motion sense and alerting
- Driver Identification with affordable Dallas keys
- Automatic, over-the-air configuration on power-up
- Automatic, over-the-air firmware download
- Simple, easy to use, diagnostic tools

The ultra-sensitive GPS-based LMU-2500 fleet tracking unit is unrivaled in its class with next generation GPS technology at an economical price.

Competitive Price, Competitive Technology, Competitive Edge

The LMU-2500 is a robust fleet device you can count on for standard AVL applications. The LMU-2500 incorporates GSM wireless communication and extra sensitive GPS in an affordable package. It's built with quality components to deliver unrivaled performance to meet the high reliability requirements of always-on tracking. High-sensitivity GPS and an internal antenna option means the device can be mounted virtually anywhere for less expensive installation.

Flexibility

The LMU-2500 features an advanced on-board alert engine that monitors vehicle conditions giving you the most flexible tracking device in its class. The **PEG**™ (Programmable Event Generator) application supports hundreds of customized exception-based rules to help meet customers' dynamic requirements. Combining affordability and device intelligence with your unique application can give you distinct advantages over your competition.

Over-the-air Serviceability

Configuration parameters, PEG rules, and firmware can all be updated over the air. Our web-based maintenance server, 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.

Complete Product Line

The economical LMU-2500 is a new addition to the LMU product line of tracking devices used by government, Fortune 100, and small fleets since 1998. When more robust features or different networks are required, the fully featured LMU-4100 can be selected instead. No further integration or support is required. And since PULS and PEG are offered on all LMU devices you can address customer requirements with confidence knowing that you have an industry-leading product line supporting your application.

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CalAmp®

Key Features

- GPRS and SMS-Based Messaging
- High Sensitivity GPS (-160 dBm)
- Integrated Motion Sense
- Voltage Monitoring and Low Battery Notification
- 5,000 Buffered Messages
- 32 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

- Driver ID with 1-Wire® protocol
- Temperature Sensing via 1-Wire® protocol
- Backup Battery
- External GPS and Cellular Antennas
- Internal GPS and Cellular Antennas
- NMEA Serial Cable
- External A/D input

Development Support Options

- Customized Software Features Available on Request
- Custom Development Available on Request

LMU-2500 GPRS Specifications

General Specifications

Communication Modes	GPRS packet data and SMS
Location Technology	50 Channel GPS (with WASS)
Operating Voltage	6-32 VDC

Location Specifications

Location Technology	50 Channel GPS (with WASS)
Location Accuracy	3 meter CEP (with SA off)
Tracking Sensitivity	-160 dBm (tracking)
In-vehicle mapping	NMEA GPS output

GSM Specifications

Data Support	SMS, GPRS (UDP)
Cellular/PCS:	FCC– Parts 22, 24; PTCRB
GPRS	Up to class 12
Quad Band	850/900/1800/1900 MHz
Output Power	850 (Class 4) 2W
	900 (Class 4) 2W
	1800 (Class 1) 1W
	1900 (Class 1) 1W

Comprehensive I/O

Inputs	5
Relay Driver Outputs (150 mA)	2
A/D Inputs	2 (1 internal, 1 external)
1-Wire® Interface	Driver ID
	Temperature Sense
Status LEDs	GPS and Cellular
Power harness	Included with Two (2) 3A Fuses

Electrical Specifications

Operating Voltage	6-32 VDC
Power Consumption	
Active Standby	< 75 mA @ 12V
Network Conected Sleep	< 20 mA @ 12V
Deep Sleep	< 3 mA @ 12V

Physical Specifications

Dimensions	51 x 102 x 24 mm
	2.0 x 4.0 x 0.93 inches
Weight	74g (external), 82g (internal)
Status LEDs	GPS and Cellular

Environmental Specifications

Operating Temperature	-30° to +75° C
Storage Temperature	-40° to +85° C
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

Connectors, SIM Access

SIM Access	Internal
External GPS	SMA (with tamper monitoring, 3 V)
External Cellular	SMC
I/O, power, programming	20 pin Molex-type fused power harness

Mounting

Standard Tie-wrap or Adhesive
Screw Mount Tamper-resistant / Tamper-evident Bracket

CalAmp®

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