



# LMU-5530™ LTE/HSPA Series

## 3G/4G Broadband Router / Tracker



### EXPERIENCE THE ADVANTAGE

- Superior 3G/4G cellular and GPS wireless performance
- ARM Cortex A9 800MHz low power embedded processor
- Linux OpenWrt 3.10 operating system
- Secure IP router functionality
- Bluetooth 4.0 Dual Mode
- 802.11 b/g/n/i Wi-Fi
- Built-in 3-axis accelerometer for driver behavior, motion and impact sensing
- 10/100 Ethernet interface
- USB Host + OTG
- Switched power serial ports
- Advanced peripherals support
- Full Featured Asset Tracker/Manager
- Comprehensive I/O system
- Over-the-air configuration and firmware download
- Internal Backup Battery

CalAmp's LMU-5530 has the versatility, speed and expandability to meet customers' ever challenging needs in fixed or mobile broadband applications. With a powerful, lower power, 800MHz ARM9 embedded processor, the LMU-5530 boasts an adaptable platform featuring: 3G/4G broadband routing, cellular gateway functions, a Programmable Event Generation engine, built-in 3-axis g-force measurements, multiple power management sleep modes, leading GPS sensitivity tracking technologies, and multiple interfaces all brought together under a flexible Linux operating system.

### COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-5530 comes equipped with two Ethernet 10/100 ports, both host and device OTG USB, RS232/RS485 serial port, switched power TTL serial port, two 1-wire busses, seven inputs, seven outputs, and five A/D inputs. The LMU-5530 also supports advanced peripherals including laptops, USB dongles, Mobile Data Terminals (MDT's), RFID tags, and more.

### FLEXIBILITY

In addition to the flexibility of the Linux operating system, the LMU-5530 software environment employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). The Linux and PEG™ environments enable users to create and deploy their own custom applications. The advanced PEG engine monitors external conditions and supports customer-defined exception-based rules PEG continuously monitors the environments and responds instantaneously to pre-defined threshold conditions related to time, date, motion, location, geo-zone, input and other event combinations.

### OVER-THE-AIR SERVICEABILITY

THE LMU-5530 also incorporates CalAmp's over-the-air device management and maintenance software, PULS™ (Programming, Update and Logistics System). Linux applications, configuration parameters, PEG scripts, and firmware can all be updated over-the-air. Unit health status can also be monitored across your installations to quickly identify issues before they become expensive problems.

All of these capabilities packed into a small size are a competitive package second to none, designed to reduce the cost of delivering, supporting, and growing countless broadband applications.

# LMU-5530 SPECIFICATIONS

## PROCESSOR

Processor	ARM Cortex A9 32bit MCU
Speed	800 MHz
Flash	Up to 512MB
RAM	Up to 512MB
Real Time Clock	

## OPERATING SYSTEM, SOFTWARE INTERFACE, SECURITY

Operating System	Linux OpenWrt 3.10
Application Interfaces	TCP/IP, UDP/IP, DHCP, HTTP, IP Router, PPP, HTTP Web server, Telnet DHCP server, DDNS, DDNS Client, NAT, NMEA, TAIP, TSIP, GPS, TFTP, IP port forwarding
Security	IPSEC, VPN (SSL v2, TLS v1) SSH server, SCP, SFTP

## GPS

Location Technology	GPS; GLONASS, and QZSS capable
Enhancement Technology	SBAS: WASS, EGNOS, MSAS
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

LTE	700/800/900/2100/2600 MHz (depending on configuration) Downlink up to 100 Mbps (peak burst rate) Uplink up to 50 Mbps (peak burst rate) Fallback to HSPA/CDMA (depending on configuration)
HSPA Tri-Band	850/1900/1200 MHz diversity capability Downlink up to 7.2 Mbps Uplink up to 5.76 Mbps Fallback to HSDPA/UMTS/EDGE/GPRS/2.4GHz

## LOCAL AREA NETWORKING

Bluetooth	4.0 Dual Mode Supports BLE Shared antenna with Wi-Fi
Wi-Fi	802.11 b/g/n/i Supports access point and/or client operations Supports internal/external antenna

## DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

### 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](http://www.calamp.com).

## COMPREHENSIVE I/O

Digital Inputs	7 (high/low selectable 0-30 VDC)
Digital Outputs	5 relay driver outputs (200mA) 2 low current LED outputs (20mA)
Voltage A/D input	5 general purpose A/D (0-30 VDC)
1-Wire® Interface	2 (driver ID, Temperature sense)
Status LEDs	Power, COMM, GPS, Wi-Fi, and BT

## ENVIRONMENTAL

Temperature	-30° to + 70° C (connected to primary power) -40° to + 85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 801G, SAE J1455
EMC/EMI	SAE J1113

## ELECTRICAL

Operating Voltage	8-32 VDC (running), 9-30 VDC (starting)
Power Consumption	Typical <2mA @ 12V (deep sleep) Typical 160mA @ 12V (SMS+UDP connections, GPS off) Typical 270mA @ 12V (continuous transmit)
Back Up Battery	Lithium-Ion 3.7 V 1000mAh (See online technical specifications for latest details regarding battery)

## PHYSICAL

Dimensions	5.75 x 4.0 x 1.2" (146 x 102 x 40mm)
Weight	8.0 oz, (227g)

## CONNECTORS, SIM ACCESS

SIM Access	Slot Access
Cellular	SMA main, SMA diversity
External GPS	SMA (with tamper monitoring, 3.0v)
External WiFi	SMA RP
Ethernet	2x 10/100 Base-T RJ45
USB	On-The-Go (mini), Host Type A
Serial	1 DB-9 (RS232/RS485), 1 5-Pin Molex TTL level switch power
4-Pin Molex	Power, ignition, ADC
22-Pin Molex	I/O connections

## CERTIFICATIONS

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

## MOUNTING

Screw mounting bracket  
Tie-wrap or adhesive

## OPTIONAL ACCESSORIES

All necessary antennas (GPS, cellular, combined GPS/cellular)  
Serial adapter cable RS-232 8-wire (PPP, AT commands, NMEA GPS output)  
Internal/External/Optional jPOD™ truck ECU interface  
Connectorized I/O wiring harnesses

### CalAmp Corp.

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All specifications are typical and subject to change without notice

