

LMU-4230[™] GPRS/CDMA/HSPA/LTE Series

Enterprise Location Messaging Unit With Heavy and Light Duty Vehicle Interface

EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT, HSPA, or LTE configurations
- Optional WiFi or Bluetooth connectivity
- Optional heavy duty or light duty vehicle ECU interfaces
- Switched power serial ports
- Comprehensive I/O system with 8 inputs, 7 outputs, 4 A/D inputs, and 2 1-Wire[™] interfaces
- Internal or external antenna configurations
- Built-in 3-axis accelerometer for driver behavior, Motion sensing, hard braking, impact detection
- Dual reporting 20,000 buffered message log
- 32 built-in geo-fences, plus any combination of circle or polygon zones, up to 5290 points
- Optional 1000mAh backup battery
- Automatic, over-the-air configuration and firmware download
- Android[™], Magellan[®], Garmin[®], TomTom[®], MDT and other advanced peripherals support
- Low power sleep modes

CalAmp's flagship LMU-4230 product has the features, expandability, and flexibility with the intelligence to meet customers' ever-changing needs in fleet management. The LMU-4230 supports a broad range of wireless connection options and comes equipped with either light or heavy duty vehicle interfaces. The LMU-4230's expandability and flexibility are key to lowering the cost of delivering, supporting, and growing fleet management solutions.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-4230 is designed to support enterprise customers needing a wide range of wireless connectivity, vehicle interfaces and peripheral interconnect. The LMU-4230 offers a full set of fleet features with cellular, WiFi, Bluetooth, and satellite connectivity options, plus a 3-axis accelerometer that detects and acts on hard braking, aggressive acceleration, or vehicle impacts. The LMU-4230 also features a comprehensive I/O system and expandable accessories that make it an industry leading value proposition. The serial ports supply switchable power at selectable voltages to ease the installation of peripheral data devices. The optional jPOD[™] ECU (Engine Control Unit) interface reads and transmits heavy-duty engine condition and performance data such as engine temperature along with the fault codes to provide the best possible real-time picture of vehicle health.

FLEXIBILITY

The LMU-4230 employs CalAmp's industry leading on-board alert engine, PEG[™] (Programmable Event Generator). This advanced engine monitors external conditions and supports customer-defined exception-based rules to help meet the needs of your 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. With PEG, your unique application will meet demanding customer requirements. 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-4230 also leverages CalAmp's industry over-the-air device management and maintenance system, PULS[™] (Programming, Updates, and Logistic 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-4230 SPECIFICATIONS

SMS, TCP and UDP packet data

12 and 24 volt vehicle systems

32.5dBm

29.3dBm

24dBm

23dBm

23dBm

5.6 Mbps upload/ 7.2 Mbps download

700/800/850/1700/1800/1900/2600 MHz

Downlink up to 10 Mbps (peak burst rate) Uplink up to 5 Mbps (peak burst rate) Fallback to HSPA/CDMA (depending on

EDGE/GPRS/GSM guad band

(depending on configuration)

56 channel GPS (with SBAS)

SMS, GPRS, CDMA 1XRTT or HSPA packet data

800(VI)/850(V)/,900(VIII)/ 1700(IV)/1900(II)/2100(I)

850/900/1800/1900

850/1900

850/900

850

1900

1800/1900

(all bands)

EDGE MCS1-MCS9 **3GPP Release 6**

GENERAL

Data Support Location Technology **Operating Voltage**

GPS

Location Technology GPS; GLONASS and QZSS capable **Enhancement Technology** SBAS: WAAS, EGNOS, MSAS **Receiver Type** 56 channels Tracking Sensitivity -162 dBm Acquisition Sensitivity -148 dBm Location Accuracy 2.0m CEP Location Update Rate up to 10 Hz Anti-iamming AGPS / Location assistance capable

CELLULAR

Data Support

Operating Bands (MHz) GSM/GPRS CDMA/1XRTT HSPA/UMTS

Transmitter Power GSM/GPRS

CDMA/1XRTT

HSPA/UMTS HSPA data rates HSPA Fallback

LTE

COMPREHENSIVE I/O

Digital Ignition Inputs Digital Inputs Digital Outputs Current Limited Outputs A/D Inputs 1-Wire® Interface Status LEDs

configuration) 1 fixed bias 7 (high/low selectable 0-30 VDC) 5 (open collector relay 150mA) 2 (20mA) 4 (0-30VDC, +/-0.1V accuracy) 2 (driver ID, temperature sense) GPS and cellular

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.

	ELECTRICAL	
	Operating Voltage	9-30 VDC (Start-up, Operating)
	Device Consumption	7-32 VDC (Momentary)
	Power Consumption	4 mA @ 12V (deep sleep) 10mA @ 12V (sleep on petwork with SMS)
		20mA @ 12V (sleep on network with GPRS)
		70mA @ 12V (active tracking)
	Back Up Battery	(Optional) Lithium-Ion 200mAh or 1000mAh
		(See technical specification online for
		operational changes)
	ENVIRONMENTAL	
	Temperature*	-30° to +75° C
		(connected to primary power)
		-40° to +85° C (storage)
		Except Battery*
	Humidity	95%RH @ 50° C non-condensing
	Shock and Vibration	U.S. Military Standards 202G and 810F,
	EMC/EMI:	SAE J1455 SΔF I1113
		5/12 51115
	PHYSICAL	(12, 12, 2, 2, 12, 0, 0, 0, 0, 0, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
	Weight	4.3 X 3.2 X 0.80 , (110 X 81 X 22mm) 4 oz (113 g)
	weight	+ 02, (115 g)
	CONNECTORS, SIM ACCES	S
	SIM Access	Internal
	External Cellular	SMC
		SMA (with tamper monitoring, 3.0V)
	Two 5-Pin Molex	Switched power serial
	22-Pin Molex	I/O connection
	WiFi Option	RP-SMA
	Vehicle Bus Option	DB-15
	ADDITIONAL CONFIGURA	TIONS
	Bluetooth 4.0 Dual-Mode	Classic, Bluetooth Low Energy
	WiFi a/b/g/i client mode	
	jPOD™ Truck	J1708, J1939
	vPOD Light Duty	J1850 PWM, J1850 VPW
		ISO 9141-2, KWP 2000, ISO-15765
	CERTIFICATIONS	
	Fully certified FCC, CE, IC, P	CRB, Applicable Carriers
	ΜΟΠΝΙΤΙΝΟ	
	Screw mounting bracket	
Tie-wrap, adhesive, or velcro DEVELOPMENT SUPPORT OPTIONS Customized hardware and software development available on requ OPTIONAL FEATURES/FUNCTIONS External antennas (GPS, cellular, combined GPS/cellular		0
		000000
		OPTIONS
		software development available on request
		ICTIONS
		ular. combined GPS/cellular
Serial adapter cable RS-232 8-wire (PPP, AT Commands, NMEA GPS output		
jPOD dongle for truck ECU interface		
	Connectorized I/O wiring h	arness
	Built-in or external backup batteries	
	CalAmp Corp.	
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All specifications are typical and subject to change without notice

