

EXPERIENCE THE ADVANTAGE

- 500 message cycles on fully charged battery pack
- 18 months with 0 messages until a final 30 min tracking session
- 3 months with single message cycle per day on fully charged battery pack
- · Superior cellular and GPS quality
- IP66 sealed enclosure
- Built-in 3-axis accelerometer for motion sense and impact detection
- Built-in cellular and GPS antenna for easy installation

The TTU-1230 rechargeable battery pack trailer tracking product is designed for reliable, multi-year deployments. The TTU-1230 is an ideal solution for managing assets that are normally tethered to 12 or 24 volt systems but may still idle for extended periods.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The TTU-1230 high-value tracking unit from CalAmp features a small size, superior GPS performance, an internal 5.2Ah battery and three Inputs/Outputs (I/O). The TTU-1230 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GPRS, CDMA, and HSPA 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 th TTU-1230 mountable virtually anywhere in the vehicle for east, 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 TTU-1230 is designed to dramatically reduce cost of ownership, power and size while providing excellent field reliability.

FLEXIBILITY

The TTU-1230 employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). This advanced engine monitors external conditions and supports customer-defined expectation-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 TTU-1230 also leverages CalAmp's industry leading over-the-air device management and maintenance system, PULS™ (Programming, Updates, and Logistics 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.



TTU-1230 SPECIFICATIONS

GENERAL

Communication Modes GPRS/EDGE/HSPA and CDMA 1xRTT

packet data, UDP and SMS

Location Technology 50 channel GPS

Operating Voltage 12 and 24 volt vehicle systems

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
Location Update Rate up to 10 Hz

Anti-jamming

AGPS / Location assistance capable

PHYSICAL

Dimensions 2.125" x 4.33" x 1.59", (54 x 110 x 40.4mm)

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Weight 12 oz / 340 g (with harness)

CONNECTORS, SIM ACCESS

SIM Access Internal

CELLULAR

Data Support SMS, GPRS, CDMA, 1xRTT or HSPA packet

data

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 1 fixed bias

2 programmable bias 3 open collector (200mA)

Status LED's GPS and Cellular

About CalAmp

Digital Outputs

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.

ENVIRONMENTAL

Temperature -30° to $+85^{\circ}$ C (connected to primary power)

-30° to +70° C (connected to battery power)

-40° to +60°C (storage)

Humidity 95%RH @ 50° C non-condensing Shock and Vibration U.S. Military Standards 202G and 810F,

SAE J1455

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EMC/EMI SAE J1113; FCC-Part 15B; Industry Canada

Rohs Compliant

ELECTRICAL

Operating Voltage 9-32 VDC (startup, operating)

7-32 VDC (momentary)

Power Consumption <1mA @ 12V (deep sleep)

<16.7mA @ 12V (SMS only)

<37mA @ 12V (SMS, data, and GPS) <75mA @ 12V (Continuous Transmit)

Back Up Battery 3.7 Volt Lithium-lon 5.2Ah

6 hour charge time

-15° to +55° C charging temperature

MOUNTING

Screw mount bracket, Standard tie-wrap or adhesive

KEY FEATURES

• 3 months with single message cycle per day on fully charged batteries.

• 5.2 Ah lithium ion rechargeable battery pack

• IP66 sealed enclosure

Packet data (GPRS,CDMA 1xRTT, or HSPA) and SMS-based messaging

· Internal GSM and GPS antennas

· Super sensitive GPS tracking

• Ultra-low power save mode (<2mA)

• 3-axis accelerometer for motion sense and impact detection

• 3 inputs and 3 outputs

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™)

CERTIFICATIONS

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

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

CalAmp Corp.

2177 Salk Avenue, Suite 200, Carlsbad, CA 92008

T: 760.438.9010 | F: 760.438.5835

www.calamp.com

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All specifications are typical and subject to change without notice

