

EXPERIENCE THE ADVANTAGE

- 500 message cycles on fully charged battery pack
- 18 months with 0 messages until a final 30 min tracking session
- 6 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 sensing
- Built-in cellular and GPS antenna for easy installation

The TTU-1200 rechargeable battery pack trailer tracking product is designed for reliable, multi-year deployments. The TTU-1200 is an ideal solution for managing assets that are normally tethered to 12 or 24 volt systems but may sit idle for extended periods.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The TTU-1200 high-value tracking unit from CalAmp features a small size, superior GPS performance, an internal 3.8 Ah battery and three Inputs/Outputs (I/O). The TTU-1200 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 the TTU-1200 mountable virtually anywhere in the vehicle for easy, 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-1200 is designed to dramatically reduce cost of ownership, power and size while providing excellent field reliability.

FI FXIBILITY

The TTU-1200 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 TTU-1200 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.

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TTU-1200 SPECIFICATIONS

GENERAL

Communication Modes GPRS/EDGE/HSPA and CDMA 1xRTT packet

> data, UDP and SMS 50 channel GPS

Location Technology 12 and 24 volt vehicle systems

Operating Voltage

GPS

50 channel GPS (with SBAS)

Location Technology SBAS: WAAS, EGNOS, MSAS, GAGAN Location Accuracy

Tracking Sensitivity 2.0 meter CEP (with SBAS)

Acquisition Sensitivity -162dBm AGPS Capable -147dBm

BATTERY PACK

Battery Capacity Battery Voltage

3.8 amp hour 3.6 volts

Battery Charge Time

6 hours

Battery Technology

Lithium ion

CELLULAR

Data Support

Operating Bands (MHz)

SMS, GPRS, CDMA 1xRTT or HSPA packet data

GSM/GPRS

850/900/1800/1900 850/1800

CDMA/1XRTT HSPA/UMTS

800(VI)/850(V)/900(VIII)/

1700(IV)/1900(II)/2100(I)

Transmitter Power

GSM/GPRS 850/900

1800/1900

CDMA/1XRTT 850

1800

HSPA/UMTS (all bands)

HSPA data rates 5.6 Mbps upload/7.2 Mbps download

HSPA Fallback EDGE/GPRS/GSM quad band

EDGE MCS1-MCS9

3GPP Release 6

COMPREHENSIVE I/O

Digital Inputs 3 fixed bias

Digital Outputs 3 open collector (150mA)

Status LEDs GPS and cellular

CERTIFICATIONS

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

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, robust and scalable cloud service platform, and targeted software applications streamline otherwise complex machine-to-machine (M2M) deployments. These colutions applies untermore to exting their proportions by called in a contraction. 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 +75° C (operating) -40° to +85° C (storage)

95%RH @ 50° C non-condensing Humidity

Shock and Vibration U.S. Military Standards 202G and 810F, SAE J1455 SAE J1113; FCC-Part 15B; Industry Canada FMC/FMI

RoHS Compliant

ELECTRICAL

Operating Voltage 6-32 VDC

2 mA @ 12V (deep sleep) Power Consumption

10 mA @ 12V (sleep on network) 70 mA @ 12V (active standby)

PHYSICAL

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

Weight 8 oz, (226g)

CONNECTORS, SIM ACCESS

SIM Access Internal

MOUNTING

Standard tie-wrap or adhesive

Screw mount bracket

KEY FEATURES

- 6 months with single message cycle per day on fully charged batteries
- 3.8 Ah lithium ion re-chargeable battery pack
- IP66 sealed enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messagingGPRS
- Internal GSM and GPS aAntennas
- Super sensitive GPS (-162 dBm tracking)
- Ultra-low power safe mode (<2mA)
- 3 axis accelerometer for motion sensing
- 3 inputs and 3 outputs
- · Voltage monitoring and low battery notification
- 20,000 buffered messages
- 4 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™)

DEVELOPMENT SUPPORT OPTIONS

• Customized hardware and software development available on request

CalAmp Corp.

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All specifications are typical and subject to change without notice.

