

EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA 1xRTT or HSPA configurations
- 6 months with single message cycle per day on fully charged battery pack
- IP66 sealed enclosure
- High sensitivity GPS
- 3-axis precision accelerometer for driver behavior and impact detection
- 1 external ADC
- 12/24 volt operation
- 3 Inputs/ 3 Outputs
- 1-Wire interface for driver ID, temperature sensors, and more
- Serial interface
- 20,000 buffered messages
- 32 geo-fences operating
- Over-the-air configuration and firmware updates

The TTU-2830 weatherproof trailer tracking product is designed for reliable, long-term deployments. The TTU-2830's rechargeable battery pack makes it an ideal solution for managing assets that are normally tethered to 12 or 24 volt systems but may sit disconnected for periods of time.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The TTU-2830 high value tracking unit from CalAmp features a small size, superior GPS performance, an internal 5.2 Ah battery and three Inputs/ three Outputs (I/O). The TTU-2830 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GPRS, CDMA 1xRTTand HSPA cellular networks for installation in or on 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-2830 mountable virtually anywhere on 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-2830 is designed for optimal size and power consumption coupled with superior performance and reliability resulting in dramatically reduced cost of ownership.

FLEXIBILITY

The TTU-2830 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-2830 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-2830 SPECIFICATIONS

GENERAL

Network Technologies GSM/GPRS/EDGE/HSPA and CDMA 1xRTT

Data Modes UDP packet data and SMS
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 CEP
Location Update Rate up to 10 Hz

Anti-jamming

AGPS / Location assistance capable

BATTERY PACK

Battery Capacity 5.2 amp hour Battery Voltage 3.7 volts Battery Technology Lithium ion

(see online technical specifications for latest details regarding battery options)

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)

Transmitted Power

CDMA/1XRTT

GSM/GPRS 850/900 32.5 dBm 1800/1900 29.3 dBm

> 850 24 dBm 800 24 dBm 1900 23dBm

HSPA/UMTS (all bands) 23 dBm

HSPA data rates 5.6 Mbps upload/ 7.2 Mpbs download HSPA Fallback EDGE/GPRS/GSM quad band

mara raliback EDGE/GPR3/G3NI quad bal

EDGE MCS1-MCS9 3GPP Release 6

COMPREHENSIVE I/O

Digital Inputs 3 (1 fixed, 2 programmable bias)

1-Wire[™] Interface

Digital Outputs 3 open collector (150mA)
Analog Input 1 External ADC input
Status LED's 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.

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,

SAE J1455

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

ELECTRICAL

Operating Voltage 9-32 VDC (start up, operating)

7-32 VDC (momentary)

Power Consumption Typical 500uA @ 12V (deep sleep)

Typical 13mA @ 12V (radio-active sleep) Typical 41mA @ 12V (SMS+UDP

connection, GPS off)

Typical 86mA @ 12V (continuous tracking)

PHYSICAL

Dimensions 2.15 x 4.33 x 1.59", (54 x 110 x 40.4mm)

Weight 12 oz / 340 g (with harness)

CONNECTORS, SIM ACCESS

SIM Access Internal

Interface 12 wire captive harness

MOUNTING

Screw Mount, Magnet Mount, Tie Wrap

KEY FEATURES

• 6 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

 3-axis accelerometer for motion, hard backing/acceleration, and impact detection

• 3 inputs and 3 outputs

External ADC input

• 1-Wire™ Bus interface for temp sensor(s)

Voltage monitoring and low battery notification

 20,000 buffered messages for data logging during coverage loss

 32 built-in geo-fences (and 5400 vertices for polygon zones)

• 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™)

 OBDII ECU interface support (option)

Serial port (TTL Level)

DEVELOPMENT SUPPORT OPTIONS

 $Customized\ hardware\ and\ software\ development\ available\ on\ request$

CERTIFICATIONS

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

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All specifications are typical and subject to change without notice

