

Cal Amp TTU-720

GPRS/HSPA Series

7 Year non-rechargeable battery
operated Trailer Tracking Unit

EXPERIENCE THE ADVANTAGE

- GSM/GPRS, CDMA/1xRTT or HSPA configurations
- 7 year battery life with a single message per day
- Superior cellular and GPS performance
- IP-67 sealed and rugged enclosure
- Built-in motion sensor
- Built-in cellular and GPS antenna for easy installation
- Built-in 3-axis accelerometer for motion sense
- 10 built-in geo-fences
- 2,000 buffered messages

The TTU-720™ is a battery operated non-rechargeable trailer tracking product designed for reliable, multi-year deployments. The TTU-720 is an ideal solution for managing assets that will be deployed for long periods without maintenance needs.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The TTU-720™ high-value tracking unit from CalAmp features a small size, superior GPS performance, and an internal 57 Ah battery. The TTU-720™ is a complete trailer and asset tracking and communications device incorporating next generation, super-sensitive GPS technology on GSM/GPRS and HSPA cellular networks for installation on the exterior of any mobile asset. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the TTU-720™ mountable virtually anywhere on the trailer 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-720™ is designed to dramatically reduce cost of ownership, power and size while providing improving field reliability.

FLEXIBILITY

The TTU-720™ employs CalAmp's industry leading on-board alert engine, PEG™ (Programmable Event Generator). 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. 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-720™ 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. PULS can also monitor unit health status across your customers' fleets to quickly identify issues before they become expensive problems.

TTU-720 SPECIFICATIONS

GENERAL

Communication Modes	GPRS/EDGE/HSPA, CDMA/1xRTT
Location Technology	50 channel GPS
Operating Voltage	3.6 volt internal battery pack

GPS

Location Technology	GPS
Enhancement Technology	SBAS: WASS, EGNOS, MSAS, GAGAN
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	2.0m CEP
AGPS / Location assistance capable	

CELLULAR/BANDS

Operating Bands (MHz)	SMS, GPRS or HSPA packet data
GSM/GPRS	850/900/1800/1900
HSPA/UMTS	800(VI)/850(V)/900(VIII)/ 1700(IV)/1900(II)/2100(I)
CDMA/1xRTT	850/1900
HSPA data rates	5.6 Mbps upload/ 7.2 Mbps download
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1 -MCS9 3GPP Release 6
Data Support	SMS, UDP Packet Data

CERTIFICATIONS

FCC, CE, IC, PTCRB, Applicable Carriers

PRODUCT OPTIONS

Screw mounting bracket, or magnet mount
Customized hardware and software development available on request

ELECTRICAL

Operating Voltage	3.6 internal battery
Power Consumption	<100µA @ 12V (deep sleep) 70mA @ 12V (active standby)
Battery	57 Ah lithium

ENVIRONMENTAL

Temperature	30° to + 75° C (operating) tethered 40° to + 85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810G, SAE J1455 SA J111E 3
EMC/EMI	
RoHS Compliant	
IP-67 Enclosure	

PHYSICAL

Dimensions	2.25" x 2.25" x 10.5" (55 x 55 x 260mm)
Weight	320 (907z g)

CONNECTORS, SIM ACCESS

SIM Access	Internal
Cellular Antenna	Internal
GPS Antenna	Internal

KEY FEATURES

- Ultra low power sleep mode (<100µA)
- Voltage monitoring and low battery notification
- 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™)