

ATU-620™ Series

Field Replaceable AA Battery Operated
Asset Tracking Unit

Cal/Amp®



The ATU-620™ is a battery operated asset tracking product designed for reliable, long-term deployments. The ATU-620™ is an ideal solution for managing assets that will be deployed for long periods without maintenance needs.

Experience The Advantage

- GSM/GPRS or HSPA configurations
- 6 months battery life at 1 message per day (3AA batteries)
- 1 year battery life at 1 message per day (6AA batteries)
- IP66 Rugged, water and dust resistant enclosure
- Built-in motion sensor
- Built-in cellular and GPS antenna for easy installation
- IP-66 Rugged and dust resistant enclosure
- 10 built-in geo-fences
- Built-in 3-axis accelerometer for motion sense and impact sensing
- 2,000 buffered messages

Competitive Price, Competitive Technology, Competitive Edge

The sealed ATU-620™ high-value tracking unit from CalAmp features a small size, superior GPS performance and replaceable AA Alkaline batteries. The ATU-620™ is a complete asset tracking and communications device incorporating next-generation, super-sensitive GPS technology on GSM/GPRS and HSPA cellular networks for installation inside any mobile asset. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the ATU-620™ installable virtually anywhere for easy, inexpensive applications. 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 ATU-620™ is designed to dramatically reduce cost and size while significantly improving field reliability.

Flexibility

The ATU-620™ 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 ATU-620™ also leverages CalAmp's management and maintenance system, PULS™ (Programming, Updates, and Logistics System), for over-the-air configuration parameters, PEG rules and firmware. This out-of-the-box hands free configuration and automatic post-installation upgrades can monitor unit health status across your fleets to identify issues before they become expensive problems.

ATU-620™ Specifications

General

Communication Modes	GPRS/EDGE/HSPA/CDMA
Location Technology	50 channel GPS
Operating Voltage	4.5 V internal battery

GPS

Location Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Location Accuracy	2.0m CEP

Cellular/Bands

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

Battery Pack

Field Replaceable AA Batteries	
Battery Options	3 or 6 (1.5V AA Alkaline Cells)

Certifications

FCC, CE, IC, PTCRB, Applicable Carriers

Electrical

Operating Voltage	4.5V internal battery
Power Consumption	< 200µA @ 4.5V (deep sleep) 122mA @ 4.5V (continuous transmit) 38mA @ 4.5V (GPS only radio off) 26mA @ 4.5V (radio only) 26mA @ 4.5V (radio on with SMS and UDP)

Environmental

Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 801G, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	
IP-66 Enclosure	

Physical

Dimensions	2.9 x 4.9 x 1.4" (74 x 124 x 36mm)
Weight	11oz (325g)

Connectors, SIM Access

SIM Access	Internal
Cellular Antenna	Internal
GPS Antenna	Internal

Product Options

Customized hardware and software development available on request

Key Features

- Battery life up to 1 year at 1 message per day
- Voltage monitoring and low battery notification
- PEG™ exception-based rules
- Automatic, over-the-air configuration on power-up (PULS™)
- Over-the-air firmware download (PULS™)
- Web-based device management (PULS™)

About CalAmp

CalAmp (NASDAQ: CAMP) is a telematics pioneer leading transformation in a global connected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient decision making, optimizing resource utilization, and improving road safety. CalAmp is headquartered in Irvine, California and has been publicly traded since 1983. Lojack is a wholly owned subsidiary of CalAmp. For more information, visit calamp.com, or LinkedIn, Twitter, YouTube or CalAmp Blog.

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