

ASSET TRACKER

ATU-620

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

- Superior GPS Performance
- Long Battery Life
- Improves Field Reliability
- Easy to Manage

ADVANTAGES:

- Battery life of 1 year at 1 message/day (3 AA batteries) or 2 years at 1 message/day (6 AA batteries)
- IP66 sealed and rugged enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal cellular and GPS antennas
- Sensitive GPS
- Built-in 3-axis accelerometer for motion sense, tilt, and impact sensing
- Ultra low power sleep mode
- 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™)



ATU-620 Specifications:

General Specifications

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50 channel GPS
Operating Voltage	4.2 volt internal battery pack

GPS Specifications

Location Technology	50+ channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

Cellular Specifications

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
Operating Bands (MHz) GSM/GPRS:	850/900/1800/1900
CDMA/1XRTT	850/1800
HSPA/UMTS	800(VI)/850(V)/900(VIII)/1700(IV)/1900(II)/2100(I)
Transmitter Power GSM/GPRS	850/900 1800/1900
CDMA/1XRTT	850/900, 32.5 dBm 1800/1900, 29.5 dBm
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

Environmental

Temperature	-30° to +75° C (operating); -40° to +85° C (storage)
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
RoHS Compliant	

Electrical

Operating Voltage	4.2V internal battery
Power Consumption	Typical 200µA @ 4.2V (deep sleep) Typical 26 mA @ 4.2V (SMS+UDP connection, GPS off) Typical 140 mA @ 4.2V (continuous transmit)

Battery Pack

Battery Options	3 or 6 1.5V AA alkaline cells
Field-Replaceable AA Batteries	

Physical

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

Connectors, SIM Access

SIM Access	Internal
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Certifications:
• Fully certified FCC, CE, IC, PTCRB, applicable carriers