

AS500

Long Standby Asset Tracker

The AS500 Long Standby Asset Tracker features up to 10-year battery life and ruggedized enclosure. It is ideal for monitoring unpowered asset such as containers, generators, trailers, and more.

AS500 not only supports outdoor GPS, but also provides both Wi-Fi positioning and Bluetooth beacon, which enables to track mobile asset indoors.



Container



Trailer



Goods



Construction Equipment



Features



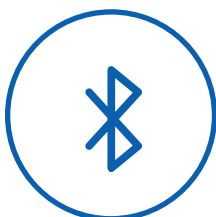
LTE-M & NB-IoT connectivity



10-year battery life with AA batteries



Ruggedized enclosure, compliant to IP69K



Built-in Bluetooth Beacon for indoor tracking



Built-in Wi-Fi Positioning for indoor tracking



Tamper and door open detection

Specifications

CELLULAR

AS500-MX (N. America)	LTE FDD Cat. M1 and NB-IoT B2, B4, B5, B12, B13
AS500-MG (EMEA, APAC, LATAM)	LTE FDD Cat.M1 and NB-IoT B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B31, B66, B71, B85
Data Support	UDP / IP, TCP / IP, MQTT, HTTPS, SMS over IMS
Antenna	Embedded cellular antenna

POSITIONING

GNSS Receiver	99 channel engine
Location Technology	GPS & GLONASS + WI-FI Scan
SBAS Support	WAAS, EGNOS, GAGAN, MSAS
Tracking Sensitivity	-167dBm
Acquisition Sensitivity	-149dBm
Location Accuracy	2.5m CEP 50%
Antenna	Internal

WIRELESS

Bluetooth Beaconing	Bluetooth Low Energy 5.0
---------------------	--------------------------

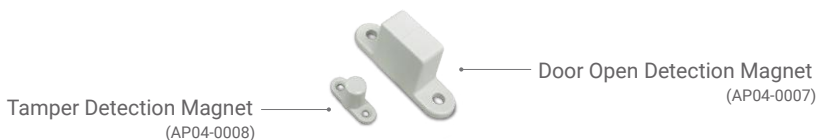
SENSORS

Accelerometer	3-axis ±16g
Tamper Detection	Support *
Door Open Detection	Support *

ELECTRICAL

Battery Size	AA x3
Supported Battery Types	Lithium (LiFeS2) Lithium Thionyl Chloride (LTC) (Li-SOCI2)
Battery Life	Up to 10 years (Based on once-daily position updates, proprietary battery applied only : Battery life is affected by several factors including GNSS signal strength, LTE network coverage, Sensors settings and more.)
LED	Internal Built in (Battery Capacity Indicator)

* Optional Accessories Required



POWER

Operating Voltage	4-12V DC
Deep Sleep Consumption	< 12uA (Average current in lowest power configuration)

MEMORY

Internal Flash Memory	16 Megabits
-----------------------	-------------

ENVIRONMENTAL

Operating Temperature	-40°C to 80°C (For operation in higher than 60 degrees temperatures use LTC Batteries)
Humidity	95%RH @ 50°C non-condensing
Vibration/Shock	MIL-STD-810H
Salt fog	MIL-STD-810H
Low pressure	MIL-STD-810H
Solar radiation	MIL-STD-810H
IP Rating	IP67, IP69K

PHYSICAL

Dimension	118 mm × 65 mm × 28 mm (4.64" x 2.55" x 1.10")
Weight	120g (0.26 lb) without Batteries
Enclosure	UV-Resistant PC
Mounting Method	Screw Mount, Bolts Magnet Mount *

CONNECTORS

SIM Card Socket	NanoSIM(4FF)
-----------------	--------------

CONFIGURATION

Device Maintenance	Firmware and configuration Update via ADM (ATrack Device Management)
--------------------	--

CERTIFICATIONS

Standards	FCC, IC, PTCRB, CE, RoHS
Carriers	AT&T, Verizon

Ordering Information

Model	Region	Connectivity	Bluetooth	Wi-Fi	Battery (AA Battery x 3)
AS500-MXCCX-AT02	N. America	LTE-M / NB-IoT	●	●	—
AS500-MXCCF-AT02	N. America	LTE-M / NB-IoT	●	●	(FR Battery LiFeS2)
AS500-MXCCE-AT02	N. America	LTE-M / NB-IoT	●	●	(ER Battery Li/SOCI2)
AS500-MGCCX-AT02	EMEA, APAC, LATAM	LTE-M / NB-IoT	●	●	—
AS500-MGCCF-AT02	EMEA, APAC, LATAM	LTE-M / NB-IoT	●	●	(FR Battery LiFeS2)
AS500-MGCCE-AT02	EMEA, APAC, LATAM	LTE-M / NB-IoT	●	●	(ER Battery Li/SOCI2)

