ATrack

AS500

- Monitor unpowered assets
- Up to 7-year battery life
- Wireless support for IoT sensors
- Weatherproof IP69K-rated enclosure
- Advanced motion detection
- Integrated accelerometer

Designed to monitor unpowered assets such as containers, generators, trailers, and more, the AS500 long standby asset tracker supports outdoor GPS, as well as both Wi-Fi positioning and Bluetooth beacon to track mobile asset indoors as well.

IoT Sensor Connectivity

Equipped with long-range Bluetooth support, the AS500 can pair with wireless sensors to monitor temperature and humidity, as well as both tamper detection and open doors.

Advanced Motion Detection

A built-in 3-axis accelerometer provides advanced motion detection capabilities to determine if a monitored object is moving or detect a rolled over container.

Weatherproof Enclosure

The IP69K-rated, UV-resistant housing not only prevents dust intrusion, but also withstands the impact of high-temperature and high-pressure water washdown or spray.

Exceptional Battery Life

An internal battery supply and high-efficiency, power-saving technology allows the AS500 to continuously operate for up to 7 years under typical daily use.

Specification

AS 500

NETWORK

AS500-LE EMEA-APAC	LTE FDD Cat.1,B1, B3, B5, B7, B8, B20, B28 GSM 850, 900, 1800, 1900
AS500-MG Global	LTE FDD Cat.M1, B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85
AS500-MX N.America	LTE FDD Cat. M, B2, B4, B5, B12, B13
Data Support	UDP / IP, TCP / IP, MQTT

HARDWARE

Bluetooth	Low Energy v5.1, Class 2 (Support long range)
Accelerometer	3-axis ±16g, Support BL1 Series Sensors* Support Tamper Sensor*, Support Door Sensor*
Memory	Internal Flash Memory 16 MB, 10,000 queues
Encryption	AES128 encryption
SIM Card Socket	Nano SIM(4FF), eSIM

POWER

Operating Voltage	4.5V (AA Battery 1.5V x3)
Current Consumption	Deep Sleep Mode < 25uA
Battery Type	Li-FeS2, AA x3pcs
Battery Capability	3,000 mAh
Battery Life	Up to 8 years (daily report interval)
LED Indicator	Internal (Battery Level)

POSITIONING

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

ENVIRONMENT

Operating Temp.	–40°C to +60°C
Humidity	95%RH @ 50°C non-condensing
MIL-STD-810H	Standard for Vibration/Schock, Salt Fog, Solar Radiation and Low Pressure
IP Rating	IP67, IP69K

PHYSICAL

Dimensions	118 mm × 65 mm × 28 mm, (4.64" x 2.55" x 1.10")
Weight	171g (0.38 lb) with Batteries
Enclosure	UV-Resistant PC
Mounting Method	Screw Mount, Bolts, Magnet Mount*

CERTIFICATIONS

Standards	FCC, IC, PTCRB, CE, RoHS