

AS300 Compact Asset Tracker

The AS300 is a compact asset tracker with a rechargeable battery, designed for short-term shipping needs. With ruggedized IP67-rated protection, it can withstand daily environmental conditions. Its versatile design allows for easy installation on various items like cold chain trailers, valuable goods, small machines, and toolboxes using either powerful magnets or zip ties. Additionally, it is well-suited for personal tracking applications such as backpacks, delivery packages, and tracking valuable products.



Cold Chain Trailer



Valuable Goods



Small Machine



Toolbox



Features

- LTE Cat.M Connectivity
- 4 weeks of battery life without charging (Hourly report interval)
- Compact size and lightweight
- Rechargeable by using type-C
- Bluetooth Long-Rang connectivity for various wireless sensors
- Ruggedized IP67 enclosure

Ordering Information

Model	Region	Connectivity
AS300-MGCCB-AT02	Global	Cat.M

Last updated: 28-May-2024

Specifications

CELLULAR

AS300-MG (Global)	LTE FDD Cat.M B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85
Data Support	UDP / IP, TCP / IP
Antenna	Embedded cellular antenna

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

WIRELESS

Bluetooth	Low Energy v5.0, Class 2 (Support long range)
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SENSORS

Accelerometer	3-axis $\pm 16g$
Bluetooth Sensor	Support BL1 Door Open Detection* Support BL1 Temperature Sensor* Support BL1 Humidity Sensor* Support BL1 Angle Sensor*

ELECTRICAL

Operating Voltage	3.7V
Current Consumption	Deep Sleep Mode < 12uA
Battery Type	Li-Polymer
Battery Capability	920mAh
Battery Life	2 years (daily report interval) 4 weeks (hourly report interval) 2 days (every 5min report interval)
LED Indicator	Internal (Power Status Indicator)

MEMORY

Internal Flash Memory	16 Mbits
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ENVIRONMENTAL

Operating Temperature	-20°C to +60°C (Recharge 0°C to +45°C)
Humidity	95%RH @ 50°C Non-condensing
Vibration/Shock	MIL-STD-810H
Salt Fog	MIL-STD-810H
Low Pressure	MIL-STD-810H
Unit Drop Test	MIL-STD-810H
IP Rating	IP67

PHYSICAL

Dimension	90 mm × 60 mm × 21.85 mm (3.5" x 2.4" x 0.9")
Weight	94g (0.21 lb)
Enclosure	UV-Resistant PC
Mounting Method	Magnet Mount, Zip Tie

CONNECTORS

SIM Card Socket	Nano SIM(4FF), eSIM
USB Type-C	Battery recharge and configuration

CONFIGURATION

Firmware Update	ADM (ATrack Device Management), USB Type-C
Configuration Update	ADM (ATrack Device Management), USB Type-C

CERTIFICATIONS

Standards	FCC, IC, CE, RoHS
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* Optional Accessories Required