ATrack

AS700
Solar-powered Asset Tracker

The AS700, a solar-powered asset tracker, is ideal for installation on containers, generators, and trailers. With its self-solar power and ruggedized IP69K/IP68 enclosure, it boasts a long lifespan and excels in overcoming environmental challenges. In addition to outdoor GPS tracking, it offers indoor tracking through Wi-Fi positioning and Bluetooth beacons. The AS700 also supports Bluetooth Long-Range connectivity and features motion and tamper detection sensors.

Container | Trailer | Generator | Construction Equipment

Features

- LTE Cat.1 Connectivity
- Up to 8 years of battery life
- Motion and tamper detection
- Ruggedized IP69K and IP68 enclosure
- Bluetooth Long-Range connectivity for various wireless sensors

Ordering Information

Model	Region	Connectivity	Power Source	
			Solar Panel	External Cable
AS700-LGCSB-AT03	Global	Cat.1	●	
AS700-LGCSE-AT03	Global	Cat.1	●	●

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Specifications

CELLULAR

AS700-LG (Global)	LTE FDD Cat.1 B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28 Support 3G/2G fallback
Data Support	UDP / IP, TCP / IP, MQTT
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	-165dBm
Acquisition Sensitivity	-149dBm
Location Accuracy	2.5m CEP 50%
Antenna	Internal

WIRELESS

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

SENSORS

Accelerometer	3-axis ±16g
Tamper Detection	Support
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 <22 μA
Power Input (External Cable Only)	Vehicle 12V/24V system
Battery Type	Li-ion
Battery Life	8 years (daily report interval) 6 months (hourly report interval) 1 months (every 10mins report interval)
Battery Capacity	8,000mAh
LED Indicator	Green, External x1 (Operation) Green, Internal x1 (Battery Level)

INPUTS/OUTPUTS (AS700-LGCSE ONLY)

Input	1-Wire® Interface**
Digital Output	250mA (max. sink current)

POWER SOURCE

Solar Powered	1.7W High efficiency solar cell

MEMORY

Internal Flash Memory	16 Mbits 10,000 queues

ENVIRONMENTAL

Operating Temperature	−40°C to +80 °C (Recharge −20°C to +50 °C) (Optimal operation: 25°C Without charging)
Humidity	95%RH @ 50° C non-condensing
Vibration/Shock	MIL-STD-810H
Salt Fog	MIL-STD-810H
Unit Drop Test	MIL-STD-810H
Impact Resistance	IEC 62262 (IK10)
IP Rating	IP68, IP69K

PHYSICAL

Dimension	216 mm x 89 mm x 30 mm (8.50” x 3.50” x 1.18”)
Weight	500g (1.1lb) (For AS700-LGCSB) 540g (1.2lb) (For AS700-LGCSE)
Enclosure	UV-Resistant PC
Mounting Method	Screw Mount, Bolts

CONNECTORS

SIM Card Socket	Mini SIM (2FF), e-SIM
USB-Type C	Battery recharge and configuration

CONFIGURATION

Firmware Update	ADM (ATrack Device Management) by Bluetooth/USB-Type C
Configuration Update	ADM (ATrack Device Management) by Bluetooth/USB-Type C

CERTIFICATIONS

Standards	FCC, IC, CE, RoHS, TELEC, PTCRB

* Optional Accessories Required
** Configurable

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