



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.



SIM card included



Unique features

- Up to 8 years of battery life without charging (daily report interval)
- LTE Cat.1 connectivity
- Motion and tamper detection

- Ruggedized IP69K and IP68 enclosure
- Bluetooth Long-Range connectivity for various wireless sensors

Ordering Information

Model	Region	Connectivity	Power Source
AS700	Global	Cat.1	Solar Panel



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Specifications

Cellular

AS700 (Global)	LTE FDD Cat.1 B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28
Data support	UDP/IP, TCP/IP, MQTT
Roaming	Global data roaming
FOTA	Supported
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

Sensors

Accelerometer	3-axis ±16g
Tamper detection	Supported

Electrical

Operating voltage	3.7V
Current consumption	Deep sleep mode <22 µA
Battery type	Li-ion
Battery life	8 years (daily report interval) 6 months (hourly report interval) 1 month (every 10 mins report interval)
Battery capability	8,000 mAh
LED indicator	Internal in x1 (battery level indicator) External in x1 (operating indicator)

Wireless

Bluetooth	Low energy v5.0, Class 2 (support long range)
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Memory

Internal flash memory	16 Mbits 10,000 queues
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Power source

Solar powered	1.7W High efficiency solar cell
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Environmental

Operating temperature	-40°C to +80°C (Recharge -20°C to +50°C)
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

Dimensions	216 mm x 89 mm x 30 mm (8.50" x 3.50" x 1.18")
Weight	500 g (1.1lb)
Enclosure	UV-Resistant PC
Mounting method	Screw mount, bolts

Connectors

SIM	Embedded SIM with nano-SIM option
USB Type-C	Battery recharge and configuration

Certifications

Standards	FCC, IC, CE, RoHS, TELEC
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Last updated: 12 June 2025