

4G GPS Asset Tracker

Long Life Battery, Robust for Outdoor Uses

SentryX 100 4G

Robust and waterproof standalone asset tracker with up to 25+ years battery Life



	PBN:03	PBN:02	PBN:01
Battery	57000 mAh 3.6V Replaceable	36000 mAh 3.6V Replaceable	19000 mAh 3.6V Replaceable
Dimensions	250.7 × 56 × 56 mm (9.87” × 2.2” × 2.2”)	187.7 × 56 × 56 mm (7.39” × 2.2” × 2.2”)	124.7 × 56 × 56 mm (4.91” × 2.2” × 2.2”)
Weight	665g (23.46 oz)	475g (16.76 oz)	315g (11.12 oz)
Operating Temperature	-30°C ~ +85°C (-22°F ~ 185°F)	-30°C ~ +85°C (-22°F ~ 185°F)	-30°C ~ +85°C (-22°F ~ 185°F)

Certificates（Completed）:

*Please reach out to us if you need any certificates in particular

- 4G CAT-1 + 2G Fallback
- Compact Size
- IP67 Waterproof
- Robust Structure for Outdoor
- Low Power Consumption
- Low Battery Alarm
- MQTT Support
- Tamper Alert
- Stolen Recovery Mode
- BLE 5.3 (Optional)
- GPS → Wifi Scan → LBS

Standby Time

(One Report per Day, 19000 mAh/3.6V)

GPS off — 17 years

GPS on — 15 years

*Assumes the device operates on LTE Cat1, with CSQ greater than 15, ambient temperature of 25'C and without working with any sensors.

Battery life in different environment varies.
Refer to Battery Calculator for more details.

Container Tracking



Rail Container Tracking



Trailer Tracking



PRODUCT SPECIFICATIONS

Network Specifications	
Operating Band	LTE FDD Cat 1: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28/B66 LTE TDD Cat 1: B34/B38/B39/B40/B41 GSM (2G): 850/900/1800/1900 MHz
Data Transmission	LTE-FDD: Max.10 Mbps (DL), Max.5 Mbps (UL) LTE-TDD: Max.8.96 Mbps (DL), Max.3.1 Mbps(UL) GPRS: Max. 85.6 Kbps (DL), Max. 85.6 Kbps(UL)
GNSS Specifications	
GNSS Chipset	All-In-One GNSS Receiver
Parallel GNSS	GPS + GlonassBeidou + Galileo + QZSS
Receiver type:	47 Tracking / 47 Acquisitions - Channel GNSS Receiver
Sensitivity	Cold Start: < 1.5s (30s) Warm Start: < 2s (25s) Hot Start: < 2s (2s)
Horizontal Position Accuracy	Autonomous: < 1.5 m CEP
TTFF @ -130 dBm with (without) EPO	Cold Start: < 29s Warm Start: < 27s Hot Start: < 1s
Interfaces	
Data Transmission	Type-C USB Cable
Network, GNSS, Wifi Antenna	Internal only
Indicator LED	Network, GNSS
FOTA	Support
Temperature Sensor	Built-in Temperature Sensor
General Specifications	
Waterproof	IP67
Dimensions	124.7*56*56mm (4.91"*2.20"*2.20") Non-rechargeable 19000mAh/3.6v battery (standard, PBN:01) 187.7*56*56mm (7.39"*2.20"*2.20") Non-rechargeable 36000mAh/3.6v battery (optional, PBN:02) 250.7*56*56mm (9.87"*2.20"*2.20") Non-rechargeable 57000mAh/3.6V battery (optional, PBN:03)
Weight	315g (11.120z)Non-rechargeable 19000mAh/3.6v battery (standard, PBN:01) 475g (16.760z)Non-rechargeable 36000mAh/3.6v battery (optional, PBN:02) 665g (23.460z)Non-rechargeable 57000mAh/3.6V battery (optional, PBN:03)
Battery	Non-rechargeable 19000mAh/3.6v battery (36000mAh/3.6v, 57000mAh/3.6V optional)
Standby Time	2.8 Years @ every 2 hrs reporing & 19000mAh/3.6v battery 10 Years @ every 12 hrs reporing & 19000mAh/3.6v battery 15 Years @ every 24 hrs reporing & 19000mAh/3.6V battery Notes: 1. The battery life result is based on an environment temperature of 25°C(77°F). 2. The battery capacity is greatly affected by temperature, lower the temperature, smaller the battery capacity. 3.More info please check TOPFLYtech on-line battery life calculator. https://www.topflytech.com/en/battery-life-calculator/
Data Communication	Type-C USB Cable
Operating Temperature	-30℃ ~ +85℃ (-20℉~185℉)
Air Interface Protocol	
Transmit Protocl	TCP, UDP, MQTT, SMS
Data Security & Encryption Option	MD5 / AES128
Scheduled Timing/Angle/Distance Report	Report Position and Status at Preset Intervals
Geo-fence	Support up to 64 Internal Geo-fence Regions
Industry Certifications (Completed)	
CE, FCC,RCM, TDRA, CITC, NBTC	