

PROFESSIONAL SOLAR-POWERED ASSET TRACKER

SolarX 120 4G

LTE Cat 1 / GSM asset tracker with a large high-grade solar panel and a 7500 mAh battery for trailers, containers and freight.



WEIGHT
410 g (14.5 oz)



DIMENSIONS
185.4 × 84.7 × 31.3 mm



OPERATING TEMP.
-30 °C ~ +80 °C



BATTERY
Li-Polymer 7500 mAh / 3.6 V

Key features

-  Compact size
-  Easy installation
-  Waterproof IP67
-  Firmware over the air (FOTA)
-  Solar powered
-  BLE 5.3 (full set wireless sensor solution)
-  Low battery alarm
-  Removal alert (light sensor)
-  Data security (MD5 / AES)
-  MQTT support

Standby time without solar charging

30 min reporting		300 days
5 min reporting		135 days

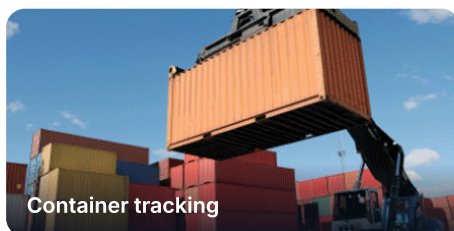
Based on 2 h of active tracking per day and 1 report every 2 h when stopped. With solar charging – unlimited with proper settings.

Applications

CERTIFICATES (PLANNED)



Trailer tracking



Container tracking



Freight transport

Technical specifications

Network	
Operating bands	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: 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	
GNSS chipset	All-in-one GNSS receiver
GNSS system	GPS + GLONASS + BeiDou + Galileo + QZSS
Receiver type	47 tracking / 47 acquisition-channel GNSS receiver
Sensitivity	Acquisition: -147 dBm Tracking: -166 dBm Reacquisition: -159 dBm
Horizontal position accuracy	Autonomous: < 2 m CEP
TTFF @ -130 dBm	Cold start: < 28 s Warm start: < 25 s Hot start: < 1 s
Interfaces	
Charging and data transmission	USB-C connector
Network, GNSS antenna	Internal only
LED indicator	Network, GNSS and battery
Touch button	Power on and off
FOTA	Yes
Light sensor	For removal alert
Temperature sensor	Built-in
BLE 5.3	Yes
WiFi	2.4 GHz 802.11b (Rx)
SIM card	Nano SIM
Tracker configuration	USB-C connector
General	
Waterproof	IP67
Dimensions	185.4 × 84.7 × 31.3 mm
Weight	410 g (14.5 oz)
Battery	Rechargeable Li-Polymer 7500 mAh / 3.6 V
Standby time (without solar charging, 2 h active tracking per day, 1 report every 2 h when stopped)	30 min reporting: 300 days 5 min reporting: 135 days

Technical specifications (cont.)

General (cont.)	
Charging & data communication	USB-C cable (5 V 1 A adaptor recommended, approx. 10 h charging)
Operating temperature	-30 °C ~ +80 °C (-22 °F ~ 176 °F)
Mounting	Magnet, screws or double-sided tape
Air interface protocol	
Transmit protocol	TCP, UDP, MQTT, SMS
Data security & encryption	MD5 / AES128
BLE accessory support	Yes
Scheduled timing / angle / distance report	Reports position and status at preset intervals
Geo-fence	Up to 64 internal geo-fence regions
Alarms	Up to 31 alarm types incl. removal and motion alarms
Certifications (planned)	FCC / CE / RCM / NBTC / TDRA / CITC / Anatel / IP67

Accessories (optional)



TSTH1-B BLE 5.0 wireless temperature and humidity sensor



TSDT1-B BLE 5.0 wireless door and temperature sensor



TSR1-B BLE 5.0 wireless relay



TA39 Magnet set (4 units)



TA46 Sponge for light sensor



T-button BLE 5.1 key fob & panic button



T-sense BLE 5.1 IP67 temperature, movement & door sensor



T-hub BLE 5.1 I/O extension hub



T-one BLE 5.1 probe temperature or temp. & humidity sensor



TA51 Torque-adjustable hand screwdriver



TA45 USB-A (male) to USB-C (male) cable, 100 cm