

PROFESSIONAL SOLAR-POWERED ASSET TRACKER

TLP2-SFB

4G

LTE Cat-M1 (eMTC) / NB-IoT / GSM tracker with a high-grade solar panel and a 9600 mAh battery for trailers, containers and freight.



WEIGHT
370 g (13.05 oz)

DIMENSIONS
85 × 185 × 31 mm

OPERATING TEMP.
-25 °C ~ +80 °C

BATTERY
Li 9600 mAh / 3.6 V

Key features

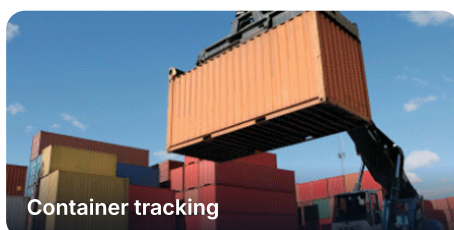
- Compact size
- Easy installation
- Waterproof IP67
- Firmware over the air (FOTA)
- Solar powered
- BLE 5.0 (full set wireless sensor solution)
- Low battery alarm
- Removal alert (light sensor)
- Data security (MD5 / AES)
- MQTT support

Standby time without solar charging

10 min reporting		320 days
5 min reporting		170 days
1 min reporting		68 days

Based on 2 hours of active tracking per day, without solar charging.

Applications



CERTIFICATES



Technical specifications

Network	
Operating bands	FDD: B1/B2/B3/B4/B5/B8/B12/B13/B19/B20/B25/B28 TDD: B39 (Cat M1 only) EGPRS: 850/900/1800/1900 MHz
Data transmission	eMTC: max. 300 kbps (DL), max. 375 kbps (UL) NB1: max. 32 kbps (DL), max. 70 kbps (UL) EDGE: max. 296 kbps (DL), max. 236.8 kbps (UL) GPRS: max. 107 kbps (DL), max. 85.6 kbps (UL)
GNSS	
GNSS chipset	Qualcomm Gen 8C GNSS receiver
Parallel GNSS	GPS + GLONASS + Galileo + BeiDou
Receiver type	33 tracking / 99 acquisition-channel GNSS receiver
Sensitivity	Cold start: -149 dBm Tracking: -163 dBm
Position accuracy (CEP)	Autonomous: < 2 m
TTFF	Cold start: < 29 s Warm start: < 27 s Hot start: < 1 s
Interfaces	
Charging and data transmission	4-pin port with magnet
Network, GNSS antenna	Internal only
Indicator LED	Network, GNSS and battery level
FOTA	Yes
Physical power switch	1
Light sensor	1 back light sensor
Temperature sensor	1 temperature sensor
BLE 5.0	Yes
General	
Waterproof	IP67
Dimensions	85 × 185 × 31 mm (3.35" × 7.28" × 1.22")
Weight	370 g (13.05 oz)
Battery	Rechargeable Li 9600 mAh / 3.6 V
Standby time (without solar charging, 2 h active tracking per day)	10 min reporting: 320 days 5 min reporting: 170 days 1 min reporting: 68 days
Charging & data communication	Magnetic USB cable (5 V 1 A adaptor recommended, approx. 20 h charging)
Solar panel	For charging the tracker battery
Operating temperature	-25 °C ~ +80 °C (-13 °F ~ 176 °F)

Technical specifications (cont.)

General (cont.)	
Mounting	Magnet or screws
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
Low power alarm	Alarm when the battery is low
Motion detection	Based on the internal 3-axis accelerometer
Removal alarm	When the light sensor detects a change of light
Industry certifications	CE, RCM, IC, FCC, PTCRB, AT&T, US Cellular, T-Mobile (on-going), Verizon (on-going)