

PREMIUM SOLAR-POWERED CONTAINER TRACKER

SolarX 130 4G

LTE Cat 1 / GSM tracker with a high-grade solar panel that fits container door grooves. Two versions: PBN:01 (15,000 mAh) and PBN:02 (7,500 mAh).


WEIGHT

PBN:01 698.9 g
PBN:02 459.4 g


DIMENSIONS

293.5 / 216.5 × 67 × 28 mm



OPERATING TEMP.
-30 °C ~ +85 °C



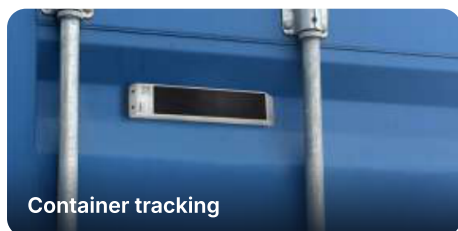
BATTERY
15 000 / 7500 mAh,
3.7 V

Key features

-  Fit-in-groove design
-  Easy installation
-  Waterproof IP67
-  Firmware over the air (FOTA)
-  Solar powered
-  BLE 5.3 (full set wireless sensor solution)
-  Low battery alarm
-  Removal alert
-  Data security (MD5 / AES)
-  MQTT support
-  Unlimited standby time with proper settings

Applications

CERTIFICATES (PLANNED)



Container tracking



Container management



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 + Galileo + BeiDou + 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 with / without EASY™	Cold start: < 15 s / 28 s Warm start: < 2 s / 25 s Hot start: < 1 s / 1 s
Interfaces	
Charging and data transmission	USB-C connector
Network, GNSS antenna	Internal only
LED indicator	Network, GNSS and battery
FOTA	Yes
Touch button	Power on and off
Hall switch	For removal alert
SIM card	Nano SIM
Temperature sensor	Built-in
BLE 5.3	Yes
Tracker configuration	USB-C connector
WiFi	2.4 GHz 802.11b (Rx)
General	
Waterproof	IP67
Dimensions	PBN:01: 293.5 × 67.0 × 28.0 mm (11.5" × 2.63" × 1.10") PBN:02: 216.5 × 67.0 × 28.0 mm (8.52" × 2.63" × 1.10")
Weight	PBN:01: 698.9 g (24.65 oz) PBN:02: 459.4 g (16.20 oz)
Battery	PBN:01: 15,000 mAh / 3.7 V rechargeable PBN:02: 7,500 mAh / 3.7 V rechargeable

Technical specifications (cont.)

General (cont.)

Standby time	Unlimited with proper settings
Charging & data communication	USB-C cable (A to C and C to C); 5 V 1 A adaptor recommended, approx. 5 h charging
Operating temperature	-30 °C ~ +85 °C (-22 °F ~ 185 °F)
Mounting	Magnet, screws & bracket or double-sided tape
Color	White (default); red, yellow, blue, green on request

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. low power, motion, tilt, collision, removal

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



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