

Solar Powered GPS Smart Lock

tracker & lock for high value asset

SolarGuardX 100



LTE Cat-M1 (eMTC)/Cat-NB2 (NB-IoT) and GSM assets tracking lock for high value asset



- 11-11 | 1050g (37oz)

- 207.5mm*110.2mm*48.1 mm (8.17" *4.39" *1.9") (without rope)
- Rechargeable Li-Polymer 14400mAh/

Certificates (planned):

- FC IC PTCRB (SAT&T LIS. Cellular T Mobile verizon
- *Please reach out to us if you need any certificates in particular

- Solar Panel
- Unlock by RFID, BLE, OTA, SMS commands
- **Built-in Strong Magnet**
- Waterproof IP67
- Firmware Over the Air
- Motion Detection
- Locking/unlocking/rope-cutting Alarm
- Super Long Battery Life
- Data Security (MD5/AES)
- **MQTT Support**
- **BLE 5.1**
- **RFID**
- Built-in Geofence

Fleet management



Container monitoring



Guards multiple doors



SolarGuardX 100 Spec

Operating Band	LTE FDD Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B LTE FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B8
	GSM/EDGE:850/900/1800/1900 MHz
Data Transmission	eMTC: Max. 588 (DL), Max. 1119 (UL) NB1: Max. 32Kbps (DL), Max. 70Kbps (UL)
	NB2: Max. 127 (DL), Max. 158.5 (UL) EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)
GNSS Specifications	GPRS. Max. 107kbps (DL), Max. 85.8kbps (OL)
GNSS Chipset	MediaTek High Gain GNSS receiver
Parallel GNSS	GPS+Glonass or GPS+Beidou
Receiver Type	33 tracking / 99 acquisitions- channel GNSS receiver
teetive. Type	Acquisition: -149 dBm
Sensitivity	Tracking: -167 dBm
Harizantal Position Assuracy	Reacquisition: -161 dBm Autonomous: < 2.5 m CEP
Horizontal Position Accuracy	
TTFF @ -130 dBm with (without) EASY™	Cold Start: < 15s (32s) Warm Start: < 8s (28s)
	Walti Start: < 0s (20s) Hot Start: < 1s (1s)
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Charging Port	Internal only
Network, GNSS, BLE, RFID, Antenna	Network, GNSS, RFID and Battery
ndicator LED	·
г ота	Yes
Physical Power Switch	1
Temperature Sensor	1 temperature sensor
RFID	Yes
SIM Card	Nano SIM
JSB Type-C Connector	Data Communication and charging
School Coorifications	Yes
General Specifications Waterproof	IP67
Dimensions	
	207.5mm*110.2mm*48.1 mm (8.17" *4.39" *1.9")
Weight	1050g (37oz) Rechargeable Li-Polymer 14400mAh/ 3.6V
Battery	Customized USB cable
Charging	(Recommend using 5V 1A adaptor, 30 hours charging)
Operating Temperature	-25°C ~ +70°C (-13°F ~ 158°F)
Mounting	Built-in Magnet
Rope	Rope 400mm (standard)
Air Interface Protocol	
ransmit Protocol	TCP, UDP, MQTT, SMS
Data Security & Encryption Option	MD5/ AES256
BLE Accessory Support	Yes
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
Geo-fence	Support up to 64 internal geo-fence regions