

Solar Powered GPS Smart Lock

SolarGuardX 100 is an advanced 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
















-  | 1050g (37oz)
-  | 207.5mm*110.2mm*48.1 mm (8.17" *4.39" *1.9") (without rope)
-  | -25°C ~ +80°C (-13°F ~ 176°F)
-  | Rechargeable Li-Polymer 14400mAh/3.6V

Certificates (planned):



*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/B85 LTE FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 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 | |
| GNSS Chipset | MediaTek High Gain GNSS receiver |
| Parallel GNSS | GPS+Glonass or GPS+Beidou |
| Receiver Type | 33 tracking / 99 acquisitions- channel GNSS receiver |
| Sensitivity | Acquisition: -149 dBm Tracking: -167 dBm Reacquisition: -161 dBm |
| Horizontal Position Accuracy | Autonomous: < 2.5 m CEP |
| TTF @ -130 dBm with (without) EASY™ | Cold Start: < 15s (32s) Warm Start: < 8s (28s) Hot Start: < 1s (1s) |
| Interfaces | |
| Charging Port | 1 |
| Network, GNSS, BLE, RFID, Antenna | Internal only |
| Indicator LED | Network, GNSS, RFID and Battery |
| FOTA | Yes |
| Physical Power Switch | 1 |
| Temperature Sensor | 1 temperature sensor |
| RFID | Yes |
| SIM Card | Nano SIM |
| USB Type-C Connector | Data Communication and charging |
| BLE 5.1 | Yes |
| General Specifications | |
| Waterproof | IP67 |
| Dimensions | 207.5mm*110.2mm*48.1 mm (8.17" *4.39" *1.9") |
| Weight | 1050g (37oz) |
| Battery | Rechargeable Li-Polymer 14400mAh/ 3.6V |
| Charging | Customized USB cable (Recommend using 5V 1A adaptor, 30 hours charging) |
| Operating Temperature | -25°C ~ +80°C (-13°F ~ 176°F) |
| Mounting | Built-in Magnet |
| Rope | Rope 400mm (standard) |
| Air Interface Protocol | |
| Transmit 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 |
| Industry Certifications (Planned) | |
| CE, RCM, IC, FCC, PTCRB, AT&T, US Cellular, T-Mobile, Verizon | |