

# Solar Powered GPS Smart Lock

SolarGuardX 200 is an advanced tracker & lock for high value asset

# SolarGuardX 200<sup>4G</sup>

4G Cat-1/3G/2G 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 ~ +70°C  
(-13°F ~ 158°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
- Alarms for locking, unlocking, rope cutting and SIM cover removal
- Super Long Battery Life
- Indicator Lights and Buzzer
- MQTT Support
- BLE 5.1 Long Range
- RFID
- Built-in Geofence

Fleet management



Container monitoring



Guards multiple doors



# SolarGuardX 200

## Network/Operating Band

|                   |                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Band    | LTE FDD Cat 4 or Cat 1 (default):<br>BB1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25/B26/B28/B66<br>LTE TDD Cat 4 or Cat 1(default): B34/B38/B39/B40/B41<br>WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM/EDGE: 850/900/1800/1900MHz |
| Data Transmission | LTE Cat4(Mbps): 150(DL)/50(UL) or LTE Cat1 (Mbps): 10(DL)/5(UL)<br>HSPA+(Mbps): 42(DL)/5.76(UL) WCDMA(Kbps): 384(DL)/384(UL)<br>EDGE(Kbps): 236.8(DL)/236.8(UL)<br>GPRS: 85.6(DL)/85.6(UL)                             |

## GNSS Specifications

|                                      |                                                           |
|--------------------------------------|-----------------------------------------------------------|
| GNSS Chipset                         | Qualcomm Gen 8C GNSS receiver                             |
| Parallel GNSS                        | GPS+Glonass or GPS+Beidou                                 |
| Receiver Type                        | 33 tracking / 99 acquisitions- channel GNSS receiver      |
| Sensitivity                          | Acquisition: -149 dBm<br>Tracking: -163 dBm               |
| Horizontal Position Accuracy         | < 2.5 m CEP                                               |
| TTFF @ -130 dBm with (without) EASY™ | Cold Start: < 29S<br>Warm Start: < 27S<br>Hot Start: < 1S |

## Interfaces

|                         |                              |
|-------------------------|------------------------------|
| Charging Port           | 2 Pin 5V/DC                  |
| E-Lock Configuring Port | Type-C connector             |
| Network, GNSS Antenna   | Internal only                |
| Indicator LED           | Battery, Network, GNSS, RFID |
| FOTA                    | Yes                          |
| Physical Power Switch   | 1                            |
| Temperature Sensor      | 1 temperature sensor         |
| BLE 5.1                 | Yes                          |

## General Specifications

|                                                                           |                                                                                                 |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Waterproof                                                                | IP67                                                                                            |
| Dimensions                                                                | 207.5mm*110.2mm*48.1mm(8.17"*4.39"*1.9")                                                        |
| Weight                                                                    | 1060g (37.4oz)                                                                                  |
| Battery                                                                   | Rechargeable Li-Polymer 14400 mAh/ 3.6V                                                         |
| Standby Time<br>(Without solar charging, 2 hours active tracking per day) | 10 minutes reporting: 402 Days<br>5 minutes reporting: 315 Days<br>1 minute reporting: 144 Days |
| Charging                                                                  | 2 PIN ( Recommend using 5V 1A adaptor, 30 hours charging)                                       |
| Operating Temperature                                                     | -25°C ~ +70°C (-13°F ~ 158°F)                                                                   |
| Mounting                                                                  | Built-in Magnet                                                                                 |

## 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             |
| Alarms                                 | Rope cut, Moving, Stop, Lock, Unlock, SIM cover removal |

## Industry Certification

FCC/CE/RCM/NBTC/TDRA/CITC/Anatel/ATEX