














Solar Powered GPS Smart Lock

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

SolarGuardX 200 ^{4G}

4G Cat-1/3G/2G assets tracking lock for high value asset



-  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

-  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

Fleet management



Container monitoring



Guards multiple doors



SolarGuardX 200

Network/Operating Band	
Operating Band	LTE FDD Cat 4 or Cat 1 (default): BB1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25/B26/B28/B66 LTE TDD Cat 4 or Cat 1(default): B34/B38/B39/B40/B41 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) HSPA+(Mbps): 42(DL)/5.76(UL) WCDMA(Kbps): 384(DL)/384(UL) EDGE(Kbps): 236.8(DL)/236.8(UL) 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 Tracking: -163 dBm
Horizontal Position Accuracy	< 2.5 m CEP
TTF @ -130 dBm with (without) EASY™	Cold Start: < 29S Warm Start: < 27S 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 (Without solar charging, 2 hours active tracking per day)	10 minutes reporting: 402 Days 5 minutes reporting: 315 Days 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	