

DATASHEET:

SOLAR POWERED ASSET TRACKER

SOLAR SENSE MINI



Solar Sense Mini utilizes a high-efficiency solar panel to charge and maximize the operating life of the internal Lithium Ion battery. Customers who require frequent data for location, health, and monitoring of their remote assets can be assured that the Solar Sense Mini will provide more frequent data for longer periods compared with other asset tracking devices.

The internal 2500 Ah battery is best-in-class. It is rugged and designed to withstand various environmental factors, the Solar Sense Mini is tested to meet IP67 rating. With a fully sealed, protective case the device can be deployed in hard environments.

USE CASES

- Trailer and Chassis
- · Rail Cars
- Intermodal
- Containers
- Heavy Machinery
- Transportation Equipment
- · Mobile Signage
- Generators
- Mobile Lighting
- Agriculture
- Many More

KEY FEATURES

- · Compact size
- Easy Installation
- Solar Powered
- Waterproof
- BLE 5.3 Full Wireless Sensor Solution
- Works With Door, Temperature and Humidity Sensor
- 2500 mAH Rechargable Battery
- Integrated GPS receiver and antenna
- Integrated LTE band antenna
- Low Battery Alarm



Optional Door and Temperature Sensor For Solar Sense Mini



GENERAL SPECIFICAT	
Dimensions	88mm* 60.4mm*30.7 mm (3.46" *2.38" *1.21")
Weight	370g (5.3oz)
Battery	Rechargeable Li 2500 mAh/ 3.6V
IP Rating Waterproof	IP67
Standby Time	Unlimited Standby time with proper setting.
Charging & Data Communication	Type C Cable (A to C and C to C) (Recommend using 5V 1A adaptor, 5 hours charging)
Solar Panel	For charging the tracker battery
Operating Temperature	22 °F to 176 °F (-30 °C to 80 °C)
Mounting	Magnet/Screw/VHB Tape
INTERFACES	
Charging and Data Transmission	Type -C Connector
Network, GNSS Antenna	Internal only
Indicator LED	Network, GNSS and Battery level
FOTA	Yes
Touch Button	For Power On and Off
Hall Switch	For Remove Alert
Sim Card	Nano Sim Card
Temperature Sensor	Built-In Temperature Sensor
BLE 5.3	Yes
NETWORKING/OPERA	ATING BAND
Operating Band	LTE FDD: Cat M1:B1/B2/B3/B4/B5/B8/

Hall Switch	For Remove Alert	
Sim Card	Nano Sim Card	
Temperature Sensor	Built-In Temperature Sensor	
BLE 5.3	Yes	
NETWORKING/OPERATING BAND		
Operating Band	LTE FDD: Cat M1:B1/B2/B3/B4/B5/B8/ B12/B13/B19/B20/B25/B28/B66/B85 LTE FDD: Cat NB2 B1/B2/B3/B4/B5/ B8/B12/B13/B19/B20/B25/B28/B66/ B71/B85 GSM/EDGE8 850/900/1800/1900MHz	
Data Transmission	eMTC: Max. 588Kbps (DL), Max. 1119 (UL) NB1: Max. 32Kbps (DL), Max. 158.5Kbps (UL) EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)	

GNSS SPECIFICATIONS		
GNSS Chipset	All-In-One GNSS Reciever	
GNSS System	GPS+Glonass +Galileo+ Beidou	
Receiver Type	47 tracking/47 acquisitions- channel GNSS receiver	
Sensitivity	Cold start: -147 dBm Tracking: -166 dBm	
Horizontal Positon Accuracy	Autonomous<2m CEP	
Position Accuracy (CEP)	Autonomous < 2m	
Standalone TTFF	Cold start: < 15s/28s Warm start: < 25s/2s Hot start: < 1s/1s	

AIR INTERFACE PROTOCOL		
Transmit Protocol	TCP, UDP, MQTT, SMS	
Data Security & Encryption Option	MD5/AES128	
BLE Accessory Support	Yes	
Scheduled Timing/angle/ distance Report	Report position and status at preset intervals	
Geofence	Supports uo to 64 internal geo-fence regions	
Removal Alarm	Supports up to 31 types of alarms including low power, motion dectection, removal etc	

CERTIFICATIONS

CCE, RCM, IC, FCC, PTCRB, AT&T, US Cellular, T-Mobile(on-going), Verizon(on-going)



