

Solar-Powered Satellite Tracker

A small, rugged, low-cost tracking device



Low Cost Asset Tracking

The low price makes it easy, sensible, and affordable to get started with any asset.



Powered By the Sun

Each unit is powered by a solar panel that recharges the device's battery.



Compact Tracking Terminal

Small and light enough to go unnoticed, regardless of where or how you mount it.



Tough Enough for Outdoor Use

Rugged and reliable to track anything that moves.



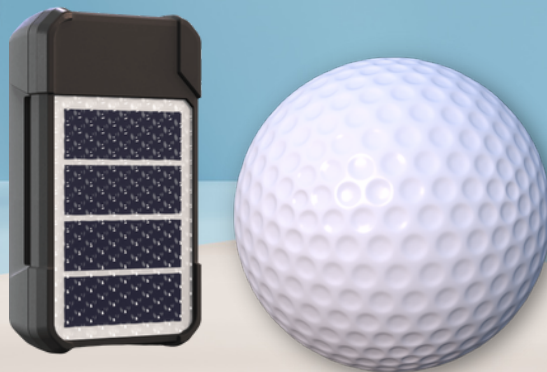
Easy to Use

Start today with three easy steps:
Activate | Mount | Track



Modular Mounting Options

Whether it has four legs or four wheels, there is a mount that will work for you.



What will you track?

- Smart Ranching
- Adventurers
- Massive IoT

SolarTrack

Specification Overview

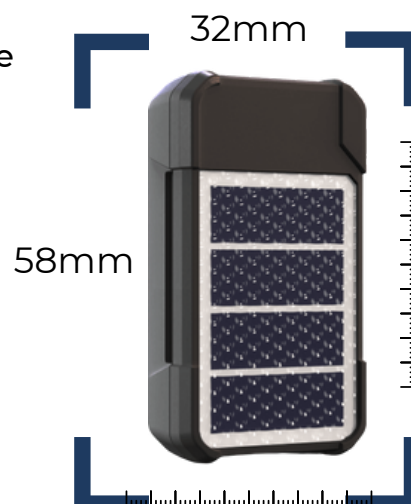
The SolarTrack was designed with the specific goal of providing the tracking market with a low-cost, compact, satellite-based terminal. Its design and functionality make it perfect for off-grid tracking of lower-cost assets, remote IoT operations, and livestock tracking. Adding data intelligence to these industries has previously yielded quandaries related to cost-effectiveness and network connectivity, each of which have been alleviated by the introduction of the SolarTrack.

Components

- Nordic Core Processor
- Solar Panel
- Rechargeable Battery
- GPS Receiver
- Embedded Satellite TX and GPS RX combined antenna
- Bluetooth Low Energy with embedded antenna
- Serial connector
- FCC, ISED, CE modular certification

Features

- Compact Tracking Device
- Solar-Powered
- Low-Cost Tracking
- Built Tough For Outdoor Use
- Ready Out-of-the-Box
- Modular Mounting Options
- Satellite Coverage



Dimensions

- Length: 57.1mm (2.25")
- Width: 31.8mm (1.25")
- Height: 17.8mm (0.70")

Weight

- Terminal: 22.2 grams (0.783oz)
- Animal Ear Tag: 4 grams (0.141oz)
- Multipurpose Clip: 5 grams (0.176oz)

Charging Method

- Solar

Solar Charge Rate

- .125 watts

Battery

- Type: Lithium Polymer
- Charge Time: Depends on sun exposure
- Capacity: 150mAh
- Lithium Content: 0.054grams (0.002oz)

Temperature

- Max (recommended): 50C
- Min (recommended): -20C

Altitude

- Range (recommended): 40,000 feet

Ingress Protection

- IP Rating: IP68 (certification pending)
- Dust tight - no ingress of dust, complete protection against contact
- Liquid immersion up to 1M depth for 30 minutes

Transmitters/Chipsets

- Transmitter Module FCC ID:
- L2V-ST100 IC: 3989A-ST100
- GPS Chip: ZOE-M8
- BLE Chip: NRF 52832

GPS Receiver type:

- 72-channel u-blox M8 engine
- GPS/QZSS L1 C/A
- GLONASS L10F
- BeiDou B1I
- Galileo E1B/C