

seed studio

INDUSTRIAL PRODUCT DATASHEET

# SenseCAP Card Tracker T1000-E for LoRaWAN

Open-source, multi-sensor LoRaWAN tracker for asset tracking, environmental monitoring, and logistics management.

SKU

114993591

UPDATED

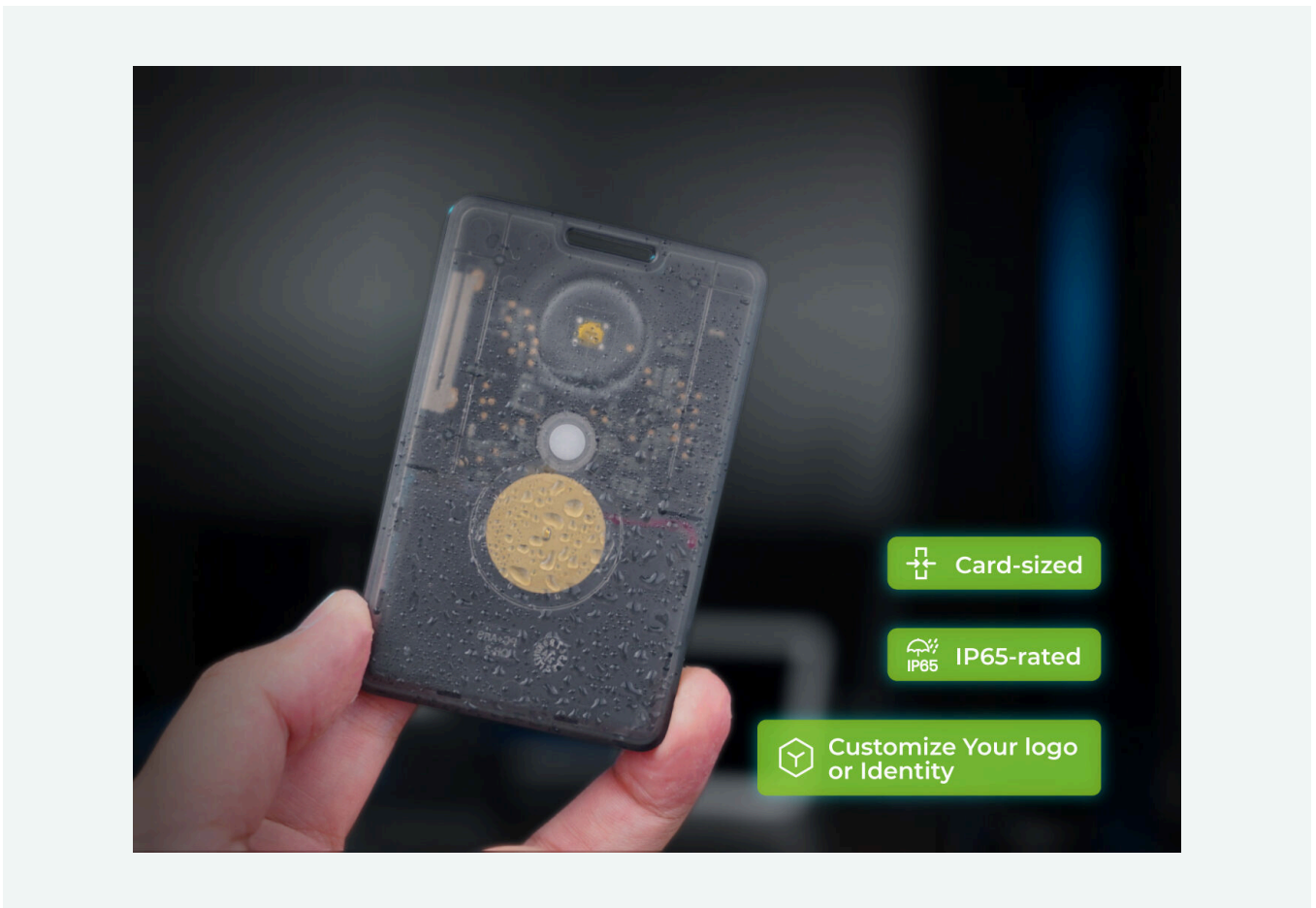
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PRICE

\$39.90(Excl. VAT)



# Overview



The SenseCAP Card Tracker T1000-E for LoRaWAN is an open-source tracking device featuring multi-sensor integration (temperature, light, 3-axis accelerometer) and GNSS/WiFi/Bluetooth positioning. It enables real-time asset tracking, environmental monitoring, and logistics management via easy configuration through the SenseCraft App and robust LoRaWAN connectivity.

# Key Features

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1. **Open - source Software:** Offer full source code, enabling community contributions and custom dev.
2. **Multi - sensor Integration:** Integrate temp, light, 3 - axis accel sensors. Support GNSS, WiFi & Bluetooth for indoor/outdoor positioning.
3. **Easy Configuration:** Via [SenseCraft App](#), users can easily configure device params.
4. **Strong LoRaWAN Support:** Ensure quick device network access and config.

**User - friendly Buttons:** Simple button ops for power on/off, Bluetooth setup, SOS alarm, etc.

## Open Firmware Ecosystem – Customize T1000-E Your Way

**SenseCAP Card Tracker T1000-E for LoRaWAN** built for versatility. It comes preloaded with **LoRaWAN** firmware out of the box, but thanks to its open hardware design and active developer community, the device is compatible with multiple firmware ecosystems – both officially supported and community-driven.

Whether you're deploying LoRaWAN-based asset tracking, setting up mesh networks, or experimenting with GNSS telemetry, T1000-E adapts to your needs.□

### 1. LoRaWAN – Out-of-the-Box LoRaWAN Communication

Ideal for long-range, low-power IoT applications using public or private LoRaWAN networks.

- See and buy: [SenseCAP Card Tracker T1000-E for LoRaWAN](#).

### 2. Meshtastic - Long-Range Offline Communication

A decentralized mesh network protocol for secure, off-grid messaging.

- See and buy: [SenseCAP Card Tracker T1000-E for Meshtastic](#), fully tested and preloaded by Seeed Studio.

*You can also flash the firmwares below yourself on your **SenseCAP Card Tracker T1000-E for LoRaWAN** and start exploring:*

### 3. MeshCore – Lightweight Mesh Networking

An emerging alternative mesh stack optimized for long-range and low-power communication.

- [Meshcore Official Flasher Tool](#)
- Select **“Seeed Studio SenseCAP T1000-E”**
- Follow the instructions to flash and get started

### 4. SoftRF – GNSS-based Positioning & ADS-B

Open-source firmware for peer-to-peer GNSS telemetry, ADS-B reception, and geolocation experiments.

- [SoftRF for SenseCAP T1000-E](#)

- [Quick Start Guide](#)

Tip: T1000-E for LoRaWAN comes with LoRaWAN firmware by default. Seeed Studio also provides a dedicated Meshtastic-compatible version. Other firmware options, such as MeshCore and SoftRF, are community-maintained – we encourage you to explore based on your specific application needs.

# Product Gallery





# Specification

General Parameters	
Product Model	T1000-E
Backhaul	LoRaWAN® (v1.0.4 Class A)
Bluetooth	Bluetooth v5.1, setting via <a href="#">SenseCraft App</a>
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/AS923/ KR920/RU864
Temperature	Range: -20 to 60°C; □Accuracy: ± 1°C; Resolution: 0.1°C
Light	0 to 100% (0 is dark, 100% is brightest )
3-Axis Accelerometer	3-Axis Accelerometer to detect movement
LED and Buzzer	1*LED and 1* buzzer to indicate status
Button	1*Button to operate and trigger events(SOS)
Antenna	Internal (GNSS/LoRa/Wi-Fi/BLE)
Communication Distance	2 to 5km (depending on gateway antenna, installation, and environments)
IP Rating	IP65
Dimensions	85 x 55 x 6.5 mm
Device Weight	32g
Operating Temperature	-20°C to +60°C
Operating Humidity	5% - 95% (No condensation)
Certification	CE /FCC /RoHS
Location	
GNSS Constellation	GPS/GLONASS/Galileo/ BeiDou/QZSS
GNSS Sensitivity	-145dBm cold start / -160 dBm Tracking
GNSS Location Accuracy	~1m CEP, GPS, -130dBm
Wi-Fi Positioning	Passive scanning, uploads the scanned 3-5 MAC addresses
Bluetooth Positioning	uploads the scanned 3 best signal MAC addresses of Beacon
Battery	
Battery Capacity	Rechargeable lithium battery, 700mAh
*Battery Life Estimates	3 months on a single charge(uplink every 1 hour, only GNSS data)
Battery Life Monitoring	Periodic uplink battery level
Charge Cable (Adapter not included)	USB magnetic charging cable, 1 meter
Power Input Voltage	4.7 to 5.5V DC
Charging Temperature	0 to +45°C

# Hardware Overview



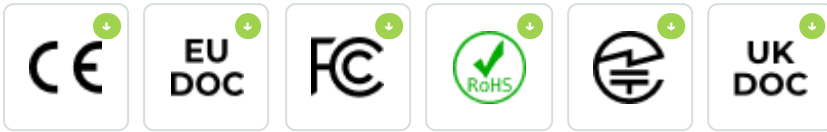
# Applications

- **Asset Tracking:** Monitor asset status and location remotely. Transmit location data to the cloud via LoRaWAN. Users can view real - time position and trajectory on mobile or PC management platforms.
- **Environmental Monitoring:** Leverage built - in thermal, photosensitive sensors and 3 - axis accelerometer. Collect and upload environmental data in real time via LoRaWAN for remote parameter monitoring.
- **Logistics Management:** Install on vehicles or packages. Track cargo transport status (routes, stops, on - time arrival) in real time, aiding logistics firms in scheduling and management.

## Part List

Tracker T1000-E	x1
USB Cable (Adapter not included)	x1

## Compliance & Logistics



HSCODE	9031809090
USHSCODE	8517620090
UPC	
EUHSCODE	9013101000
COO	CHINA

## Resource Links

- <https://www.seeedstudio.com/SenseCAP-Card-Tracker-T1000-E-for-LoRaWAN-p-6408.html>

**Seeed Technology Co.,Ltd.**

9F, Building G3, International E City,  
Zhongshanyuan Road, Nanshan, Shenzhen, China

**Tel:** +86 0755-80695676

**Web:** www.seeed.cc

**Shop:** www.seeedstudio.com