

# SenseCAP Card Tracker

## Datasheet



# SenseCAP Card Tracker T1000-A/B

## Specifically Designed for the LoRaWAN

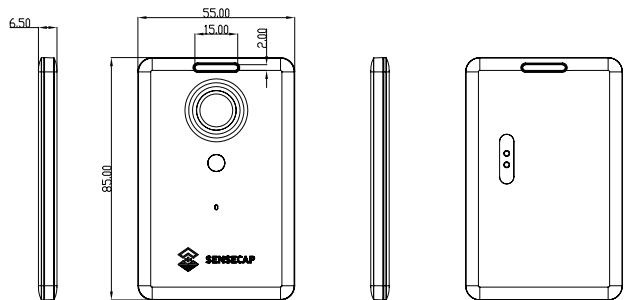
The T1000-A/B is a credit card-sized tracker, which is designed for asset and personal tracking. By utilizing GNSS/Wi-Fi/Bluetooth, it covers both outdoor and indoor positioning scenarios with high accuracy.



## Specifications

General Parameters	
Product Model	T1000-A/T1000-B
Backhaul	LoRaWAN® (v1.0.4 Class A)
Bluetooth	Bluetooth v5.1, setting via App
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	1xLED and 1x buzzer to indicate status
Button	1xButton to operate and trigger events(SOS)
Antenna	Internal (GNSS/LoRa/Wi-Fi/BLE)
Communication Distance	2 to 8km (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 /TELEC /RoHS /REACH
Location	
GNSS Constellation	GPS/GLONASS/Galileo/ BeiDou/QZSS
GNSS Sensitivity	-145dBm cold start / -160 dBm Tracking
GNSS Location Accuracy*	2.5m CEP 50%, GPS, -130dBm
Wi-Fi Positioning	Passive scanning, uploads the scanned 4 MAC addresses
Bluetooth Positioning	uploads the scanned 3 best signal MAC addresses of Beacon
Battery	
Battery Capacity	Rechargeable lithium battery, 700mAh
**Battery Life Estimates	4 months on a single charge(uplink every 1 hour, only GNSS data)
Battery Life Monitoring	Periodic uplink battery level
Charge Cable (Adapter not included)	Magnetic USB Type-A to 2P Charging Cable, 1 meter
Power Input Voltage	4.7 to 5.5V DC
Charging Temperature	0 to 45°C

## Dimension



Software	
App	SenseCraft, or other LoRaWAN Platform
Work Mode	<b>Standby:</b> only heartbeat uplink; <b>Periodic:</b> upload location in intervals; <b>Event:</b> modify the interval by temperature, light and motion(start, end, shock, motionless timeout);
Data Storage	Over 1000 location data records store on the device when there is no LoRaWAN® coverage

## Order Model

Model	GNSS	Temperature	Light	Accelerometer
T1000-A	√	√	√	√
T1000-B	√	×	×	×
T1000-E	√	√	√	√

### Note:

\*via GNSS Cloud: Semtech's [LR1110 LoRa Edge](#) solution is utilized to acquire location data, and the location is encrypted and sent to [Semtech LoRa Cloud](#) for decryption.

\* The laboratory test data when the equipment is stationary in an open place and with long-term power supply. There are errors in different applications.

\*\* Battery life depends on temperature, installation, location interval, network coverage and sensor settings.

# SenseCAP Card Tracker T1000-E

Specifically Designed for Meshtastic

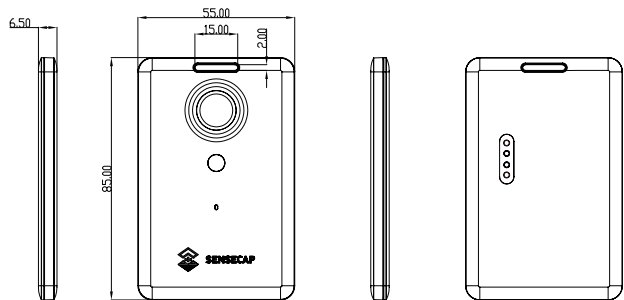
The T1000-E integrates Semtech's LR1110, Nordic's nRF52840, and Mediatek's AG3335 GNSS modules, providing Meshtastic users with a high-precision, low-power positioning and communication solution.



## Specifications

General Parameters	
Product Model	T1000-E
Backhaul	Meshtastic®
Bluetooth	Bluetooth v5.1
LoRa	Supports 863-928 MHz range
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	In development
LED and Buzzer	1xLED and 1x buzzer to indicate status
Button	1xButton to operate: 1 press: Dismiss notification 2 press: Send position 3 press: Toggle GPS on / off Long press: shutdown
Antenna	Internal (GNSS/LoRa/Wi-Fi/BLE)
Communication Distance	2 to 8km (depending on antenna, installation, environments and LoRa mesh)
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 model	Mediatek's AG3335 GNSS module
GNSS Sensitivity	-145dBm cold start / -160 dBm Tracking
GNSS Location Accuracy	~10m CEP
Battery	
Battery Capacity	Rechargeable lithium battery, 700mAh
*Battery Life Estimates	Up to 2 days
Charge Cable (Adapter not included)	Magnetic USB Type-A to 4P Charging Cable, 1 meter
Power Input Voltage	4.7 to 5.5V DC
Charging Temperature	0 to 45°C

## Dimension



Software	
App	Meshtastic
Operations	Download the Meshtastic APP Pair T1000-E with phone via Bluetooth Set LoRa Region Start Chatting
Features	Search for nearby nodes. Supports Off-Grid communication. Send text messages View node locations, temperature

## Order Model

Model	GNSS	Temperature	Light	Accelerometer
T1000-A	√	√	√	√
T1000-B	√	×	×	×
T1000-E	√	√	√	√

\*\* Battery life depends on temperature, installation, location interval, network coverage and sensor settings.

### Note:

\*via GNSS Cloud: Semtech's [LR1110 LoRa Edge](#) solution is utilized to acquire location data, and the location is encrypted and sent to [Semtech LoRa Cloud](#) for decryption.