# SenseCAP Card Tracker

**Tiny Card-Size Locator with High Capability** 

SenseCAP T1000 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.

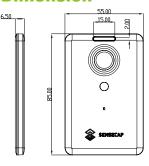
### **Specifications**

Product Model Backhaul Bluetooth KR920/RU864  Temperature Range: -20 to 60°C; Accuracy: ± 1°C Resolution: 0.1°C  Light O to 100% (0 is dark, 100% is brightest)  3-Axis Accelerometer Button  3-Axis Accelerometer LED and Buzzer 1xLED and 1x buzzer to indicate status 1xButton to operate and trigger events(SOS) Antenna Internal (GNSS/LoRa/Wi-Fi/BLE)  Communication Distance 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) Cet/FCC /TELEC /RoHS /REACH Location  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou GNSS Constellation GNSS Location Accuracy Wi-Fi Positioning Passive scanning, uploads the scanned 4 MAC addresses Bluetooth Positioning Battery Battery Life Estimates Battery Life Estimates Battery Life Monitoring Charge Cable (Adapter not included) Power Input Voltage Charging Temperature 0 to 45°C Charging Temperature Uno 45°C	Concret Devemeters			
Backhaul LoRaWAN® (v1.0.4 Class A) Bluetooth Bluetooth v5.1, setting via App LoRaWAN Channel Plan KR920/RU864  Temperature Accuracy: ± 1°C Resolution: 0.1°C Light 0 to 100% (0 is dark, 100% is brightest) 3-Axis Accelerometer as 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 2 to 8km (depending on gateway antenna, installation, and environments) IP Rating 1P65 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 T1000-A/B: GPS/GLONASS/Galileo/BeiDou/CZSS T1000-C/D: GPS/ BeiDou GNSS Sensitivity -145dBm cold start / -160 dBm Tracking Ross Location Accuracy -2m CEP, GPS, -130dBm 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) Power Input Voltage 4.7 to 5.5V DC	General Parameters	T4000 A/T4000 D/T4000 G/T4000 D		
Bluetooth		T1000-A/T1000-B/T1000-C/T1000-D		
LoRaWAN Channel Plan  IN865/EU868/US915/AU915/AS923/ KR920/RU864  Range: -20 to 60°C; Accuracy: ± 1°C Resolution: 0.1°C  Light  3-Axis Accelerometer LED and Buzzer  LED and Buzzer  IxLED and 1x buzzer to indicate status  1xButton to operate and trigger events(SOS)  Antenna  Internal (GNSS/LoRa/Wi-Fi/BLE)  Communication Distance  IP Rating  IP65  Dimensions  Bovice Weight  20°C to +60°C  Operating Temperature  Cet/FCC /TELEC /RoHS /REACH  Location  GNSS Constellation  GNSS Constellation  GNSS Sensitivity  GNSS Location Accuracy  Wi-Fi Positioning  Buttor  Battery  Battery  Battery  Battery Life Estimates  Range: -20 to 60°C; Accuracy: ± 1°C Resolution: 0.1°C  Range: -20 to 100 is dark, 100% is brightest)  1 vo 100% (0 is dark, 100% is brightest)  1 vo 100% (0 is dark, 100% is brightest)  1 vo 100% is dark, 100% is brightest)  1 xButton to oberate to detect movements  1 xButton to operate obtect movement to detect movement  1 xButton to operate and trigger events(SOS)  Antenna  Internal (GNSS/LoRa/Wi-Fi/BLE)  2 to 8km (depending on gateway antenna, installation, and environments)  1 PR 65  Dimensions  85 x 55 x 6.5 mm  Device Weight  32g  Operating Temperature  -20°C to +60°C  Operating Humidity  5% - 95% (No condensation)  CE /FCC /TELEC /RoHS /REACH  Location  GNSS Constellation  GNSS Gensitivity  -145dBm cold start / -160 dBm Tracking  GNSS Location  Accuracy  Vi-Fi Positioning  Passive scanning, uploads the scanned 4 MAC addresses  Bluetooth Positioning  Buetooth Positioning  Battery  Battery  Battery  Battery Life Estimates  4 months on a single charge(uplink every 1 hour, only GNSS data)  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  4.7 to 5.5V DC	Backhaul	,		
Plan KR920/RU864  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 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 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  T1000-A/B: GPS/GLONASS/Galileo/BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Constellation -145dBm cold start / -160 dBm Tracking  GNSS Location Accuracy -216 dAC Addresses  Bluetooth Positioning 4 MAC addresses  Bluetooth Positioning uploads the scanned 4 MAC addresses  Bluetooth Positioning Periodic uplink battery Life Estimates  Battery Life Estimates  Battery Life Monitoring Periodic uplink battery level  Charge Cable (Adapter not included)  Power Input Voltage 4.7 to 5.5V DC	Bluetooth	Bluetooth v5.1, setting via App		
Temperature  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  1xButton to operate and trigger events(SOS)  Antenna  Internal (GNSS/LoRa/Wi-Fi/BLE)  Communication Distance  1P Rating  1P65  Dimensions  85 x 55 x 6.5 mm  Device Weight  32g  Operating Temperature  -20°C to +60°C  Operating Humidity  Cet/FCC /TELEC /RoHS /REACH  Location  GNSS Constellation  GNSS Constellation  GNSS Sensitivity  -145dBm cold start / -160 dBm Tracking  GNSS Location Accuracy  Wi-Fi Positioning  Passive scanning, uploads the scanned 4 MAC addresses  Bluetooth Positioning  Battery  Battery Life Estimates  Battery Life Estimates  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  4.7 to 5.5V DC				
3-Axis Accelerometer by the component and the component and the component button butto	Temperature	Accuracy: ± 1°C		
3-Axis Accelerometer LED and Buzzer  LED and Buzzer  1xLED and 1x buzzer to indicate status  1xButton to operate and trigger events(SOS)  Antenna  Internal (GNSS/LoRa/Wi-Fi/BLE)  Communication Distance Distance Dimensions  1P Rating Device Weight  Operating Temperature Operating Humidity Certification  GNSS Constellation  GNSS Constellation  GNSS Sensitivity  GNSS Sensitivity  GNSS Location Accuracy  Wi-Fi Positioning  Bluetooth Positioning  Battery  Battery  Battery Life Estimates  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  12 to 8 km (depending on gateway antenna, trigger events)  1xButton to poperate and trigger events (SOS)  1xButton to operate and trigger events (SOS)  2 to 8km (depending on gateway antenna, trigle hold, FilbLe)  2 to 8km (depending on gateway antenna, trigle hold)  2 to 8km (depending on gateway antenna, trigle hold)  2 to 8km (depending on gateway antenna, withsland)  2 to 8km (depending on gateway antenna, trigle PECO)  2 to 8km (depending on gateway antenna, trigle Charge (plink every 1 hour, only GNSS data)  Periodic uplink battery level  USB magnetic charging cable, 1 meter	Light	0 to 100% (0 is dark, 100% is brightest )		
Button   1xButton to operate and trigger events(SOS)   Antenna   Internal (GNSS/LoRa/Wi-Fi/BLE)   Communication   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   T1000-A/B: GPS/GLONASS/Galileo/BeiDou/QZSS   T1000-C/D: GPS/ BeiDou   GNSS Sensitivity   -145dBm cold start / -160 dBm Tracking   GNSS Location   Accuracy   Amazine Season   Wi-Fi Positioning   Passive scanning, uploads the scanned   4 MAC addresses   Bluetooth Positioning   Passive scanned 3 best signal MAC   addresses of Beacon   Battery   Battery Life Estimates   Amonths on a single charge(uplink   every 1 hour, only GNSS data)   Battery Life Monitoring   Periodic uplink battery level   USB magnetic charging cable, 1 meter   Power Input Voltage   4.7 to 5.5V DC	3-Axis Accelerometer			
events(SOS)  Antenna Internal (GNSS/LoRa/Wi-Fi/BLE)  Communication 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  T1000-A/B: GPS/GLONASS/Galileo/BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Constellation Passive scanning, uploads the scanned 4 MAC addresses  Bluetooth Positioning Uploads the scanned 3 best signal MAC addresses of Beacon  Battery  Battery Life Estimates  Battery Life Estimates  Battery Life Monitoring Periodic uplink battery, 700mAh  Charge Cable (Adapter not included)  Power Input Voltage 4.7 to 5.5V DC	LED and Buzzer	1xLED and 1x buzzer to indicate status		
Communication Distance Distanc	Button			
Communication Distance Distanc	Antenna	, ,		
Dimensions  B5 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  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Sensitivity  -145dBm cold start / -160 dBm Tracking  GNSS Location Accuracy  Wi-Fi Positioning  Passive scanning, uploads the scanned 4 MAC addresses  Bluetooth Positioning  Battery  Battery  Battery  Battery Life Estimates  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  4.7 to 5.5V DC				
Device Weight Operating Temperature -20°C to +60°C Operating Humidity 5% - 95% (No condensation) Certification CE /FCC /TELEC /RoHS /REACH Location  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou GNSS Sensitivity -145dBm cold start / -160 dBm Tracking GNSS Location Accuracy Wi-Fi Positioning Passive scanning, uploads the scanned 4 MAC addresses Bluetooth Positioning Battery Battery Battery Capacity Rechargeable lithium battery, 700mAh *Battery Life Estimates Battery Life Monitoring Charge Cable (Adapter not included) Power Input Voltage 4.7 to 5.5V DC	IP Rating	IP65		
Operating Temperature -20°C to +60°C Operating Humidity 5% - 95% (No condensation) Certification CE /FCC /TELEC /RoHS /REACH Location  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou GNSS Sensitivity -145dBm cold start / -160 dBm Tracking GNSS Location Accuracy -1m CEP, 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 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) Power Input Voltage 4.7 to 5.5V DC	Dimensions	85 x 55 x 6.5 mm		
Operating Humidity  Certification  CE /FCC /TELEC /RoHS /REACH  Location  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Sensitivity  GNSS Location Accuracy  Wi-Fi Positioning  Bluetooth Positioning  Battery  Battery  Battery  Battery Life Estimates  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou  -145dBm cold start / -160 dBm Tracking BeiDou/QZSS T1000-C/D: GPS/ BeiDou  -145dBm cold start / -160 dBm Tracking  And Caddresses  -1m CEP, GPS, -130dBm  -1m CEP, GPS, -	Device Weight	32g		
Operating Humidity 5% - 95% (No condensation)  Certification CE /FCC /TELEC /RoHS /REACH  Location  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Sensitivity -145dBm cold start / -160 dBm Tracking GNSS Location Accuracy -1m CEP, 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  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)  Power Input Voltage 4.7 to 5.5V DC	Operating Temperature	-20°C to +60°C		
Location  GNSS Constellation  GNSS Constellation  GNSS Sensitivity  GNSS Sensitivity  -145dBm cold start / -160 dBm Tracking  GNSS Location Accuracy  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  Battery Capacity  Rechargeable lithium battery, 700mAh  *Battery Life Estimates  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS  T1000-C/D: GPS/ BeiDou  -145dBm cold start / -160 dBm Tracking  WePs, -130dBm  Passive scanning, uploads the scanned 3 best signal MAC addresses of Beacon  Passive scanning, uploads the scanned 4 MAC addresses  uploads the scanned 3 best signal MAC addresses of Beacon  Bettery  USB magnetic charging cable, 1 meter	Operating Humidity	5% - 95% (No condensation)		
GNSS Constellation  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Sensitivity  -145dBm cold start / -160 dBm Tracking GNSS Location Accuracy  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  Charge Cable (Adapter not included)  Power Input Voltage  4.7 to 5.5V DC	Certification	CE /FCC /TELEC /RoHS /REACH		
GNSS Constellation  T1000-A/B: GPS/GLONASS/Galileo/ BeiDou/QZSS T1000-C/D: GPS/ BeiDou  GNSS Sensitivity  -145dBm cold start / -160 dBm Tracking GNSS Location Accuracy  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  Charge Cable (Adapter not included)  Power Input Voltage  4.7 to 5.5V DC	Location			
GNSS Location Accuracy  Wi-Fi Positioning  Bluetooth Positioning  Battery  Battery  Battery Life Estimates  Battery Life Monitoring  Charge Cable (Adapter not included)  Passive scanning, uploads the scanned 4 MAC addresses  uploads the scanned 3 best signal MAC addresses of Beacon  Pastery Life Stimates  Rechargeable lithium battery, 700mAh  4 months on a single charge(uplink every 1 hour, only GNSS data)  Periodic uplink battery level  USB magnetic charging cable, 1 meter  4.7 to 5.5V DC	GNSS Constellation	BeiDou/QZSS		
Accuracy  Wi-Fi Positioning  Bluetooth Positioning  Battery  Battery Life Estimates  Battery Life Monitoring  Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  Passive scanning, uploads the scanned 4 MAC addresses  uploads the scanned 3 best signal MAC addresses of Beacon  Rechargeable lithium battery, 700mAh  4 months on a single charge(uplink every 1 hour, only GNSS data)  Periodic uplink battery level  USB magnetic charging cable, 1 meter	GNSS Sensitivity	-145dBm cold start / -160 dBm Tracking		
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)  Power Input Voltage 4.7 to 5.5V DC		~1m CEP, GPS, -130dBm		
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)  Power Input Voltage 4.7 to 5.5V DC	Wi-Fi Positioning			
Battery Capacity  *Battery Life Estimates  *Battery Life Monitoring  Charge Cable (Adapter not included)  Power Input Voltage  Rechargeable lithium battery, 700mAh  4 months on a single charge(uplink every 1 hour, only GNSS data)  Periodic uplink battery level  USB magnetic charging cable, 1 meter	Bluetooth Positioning	,		
*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)  Power Input Voltage 4.7 to 5.5V DC	Battery			
Battery Life Littrates every 1 hour, only GNSS data)  Battery Life Monitoring Periodic uplink battery level  Charge Cable (Adapter not included)  Power Input Voltage 4.7 to 5.5V DC	Battey Capacity	Rechargeable lithium battery, 700mAh		
Charge Cable (Adapter not included)  Power Input Voltage  4.7 to 5.5V DC	*Battery Life Estimates			
not included)  Power Input Voltage  4.7 to 5.5V DC	Battery Life Monitoring			
		USB magnetic charging cable, 1 meter		
Charging Temperature 0 to 45°C	Power Input Voltage	4.7 to 5.5V DC		
	Charging Temperature	0 to 45°C		

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



#### **Dimension**





Software	
Work Mode	Standby: only heartbeat uplink; Periodic: upload location in intervals; Event: 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
Арр	Configuration via Bluetooth App

#### **Order Model**

Model	GNSS	Temperature	Light	Accelerometer
T1000-A	√	V	$\sqrt{}$	V
T1000-B	√	×	×	×
T1000-C	via LoRa Cloud	√	√	√
T1000-D	via LoRa Cloud	×	×	×

#### Note:

\*via GNSS Cloud: Semetech's <u>LR1110 LoRa Edge</u> solution is utilized to acquire location data, and the location is encrypted and sent to <u>Semetech LoRa Cloud</u> for decryption .



## **Mouser Electronics**

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