

INDUSTRIAL PRODUCT DATASHEET

SenseCAP Asset Tracker T2000-B for Indoor and Outdoor Positioning

Rugged ATEX-certified LoRaWAN asset tracker with seamless indoor/outdoor positioning, IP67 protection, long-range communication, and SenseCraft management for harsh and explosive environments.

SKU

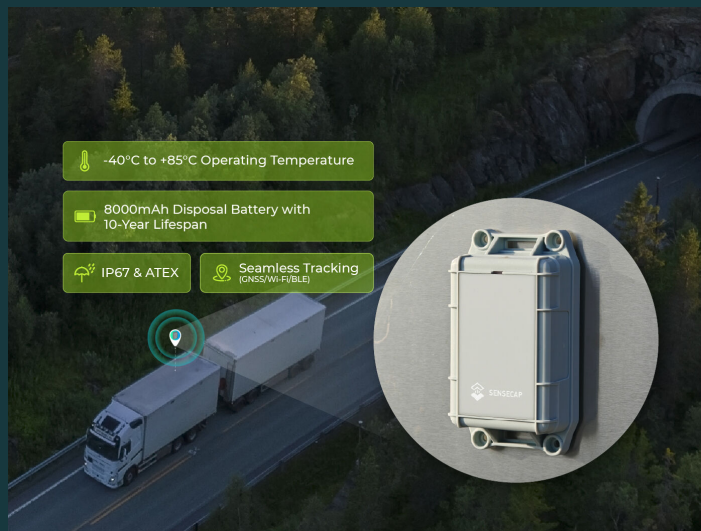
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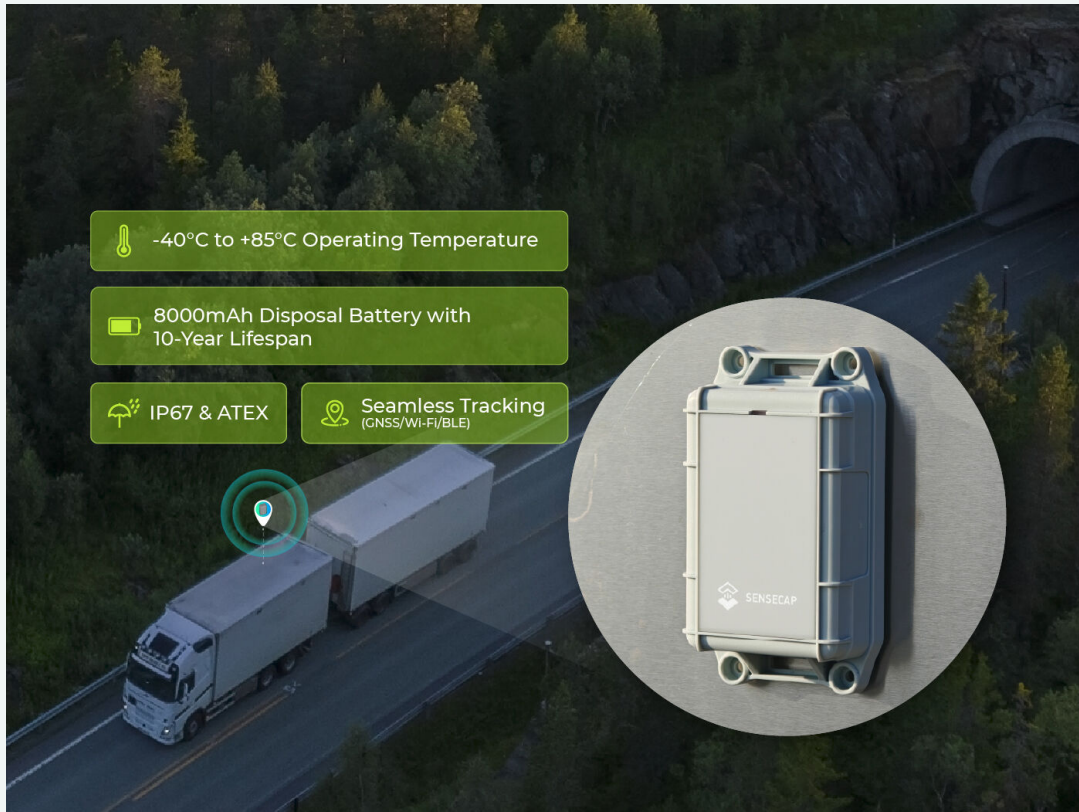
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PRICE

\$51.90(Excl. VAT)



Overview



The SenseCAP Asset Tracker T2000-B is a rugged ATEX-certified LoRaWAN asset tracker for indoor and outdoor positioning in harsh or explosive environments, offering long-range communication over 8 km, IP67-rated protection, and reliable GNSS, BLE, and Wi-Fi positioning. It supports automatic alarms via tamper-proof button and 3-axis accelerometer, multiple operating modes, offline buffering of up to 1,000 data records, and seamless management through the SenseCraft platform for applications such as smart agriculture, construction, and logistics.

Key Features

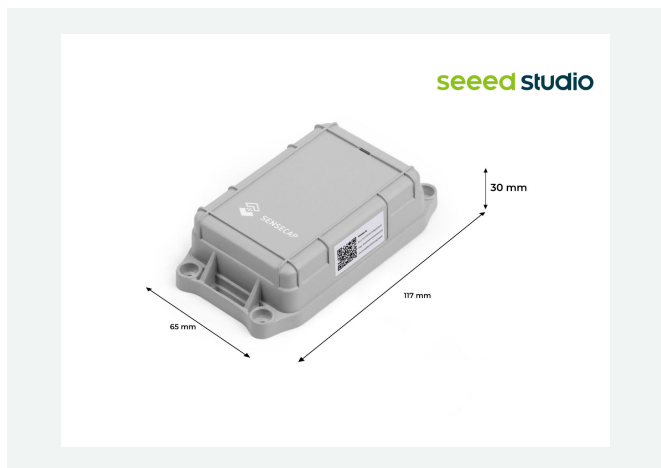
Note:

SenseCAP T1000 series are compact LoRaWAN trackers ideal for general tracking, personnel monitoring and rescue. While **SenseCAP T2000 series** are more rugged asset trackers with larger battery capacity and industrial features like IP67 and ATEX, making them suitable for harsh or long-term outdoor deployments.

- **Powerful ATEX LoRaWAN Asset Tracker T2000-A/B :** Designed for vehicles and critical assets operating in explosive atmospheres, the SenseCAP T2000-A/B provides long-range LoRaWAN connectivity, and reliable indoor/outdoor positioning in a compact industrial-grade device. Whether deployed in oil & gas facilities, mining operations, storage terminals, or industrial manufacturing sites, the T2000-A/B helps improve personnel safety, asset visibility, and operational efficiency while meeting stringent hazardous-area compliance requirements.
- **Industrial-Grade Rugged Design:** The T2000 series adopts an IP67-rated dustproof and waterproof enclosure made of PC + 10% Glass Fiber composite material, offering excellent impact resistance, corrosion resistance, and UV protection. The T2000-A/B models are now also ATEX certificated. Combined with an innovative non-penetrating magnetic switch and a wide operating temperature range of -40°C to 85°C, the tracker ensures long-term stable operation even in harsh outdoor environments.
- **Seamless indoor and outdoor positioning:** The T2000 series effectively employs BLE and Wi-Fi for pinpoint indoor positioning and utilizes GNSS technologies, including GPS, Beidou, Galileo and GLONASS for precise outdoor tracking.
- **Active Security Protection:** Equipped with a physical tamper-proof button and a 3-axis accelerometer. If the device is illegally removed, moved abnormally, or subjected to strong vibration, it will immediately trigger a highest-priority alarm and send instant push notifications to your phone via the SenseCraft platform.
- **Multiple Operating Modes:** Supports Periodic, Event, and Standby modes. Each mode corresponds to different reporting behaviors to maximize battery efficiency for various use cases.
- **Long-Range Communication & Offline Data Buffer:** Based on LoRaWAN® technology, the device achieves wireless data transmission over 8 km in open areas with no SIM card cost required. A built-in large-capacity buffer stores up to 1,000 data records, which will be automatically retransmitted once the network connection is restored, ensuring zero data loss.
- **All-in-One Software Platform Management:** Seamlessly integrated with the SenseCraft App, providing an end-to-end solution from QR code activation and Bluetooth configuration to real-time map tracking, remote parameter setup, and alarm management.
- **Multiple installation methods**

Product Gallery

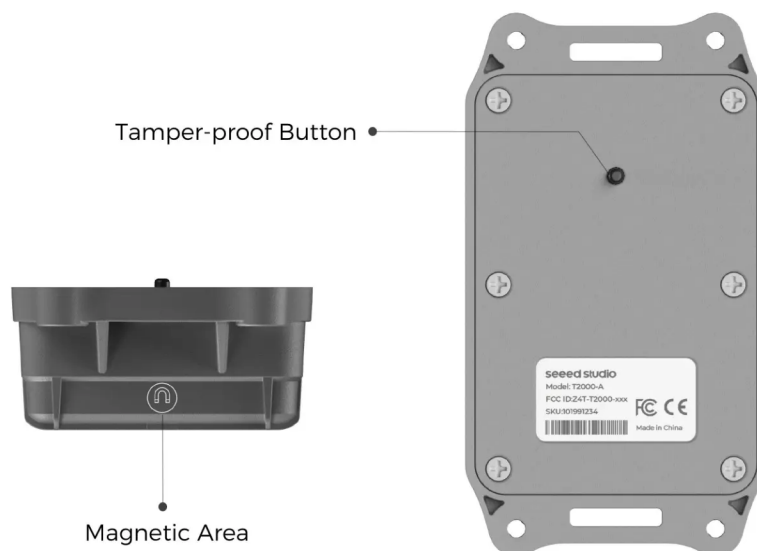
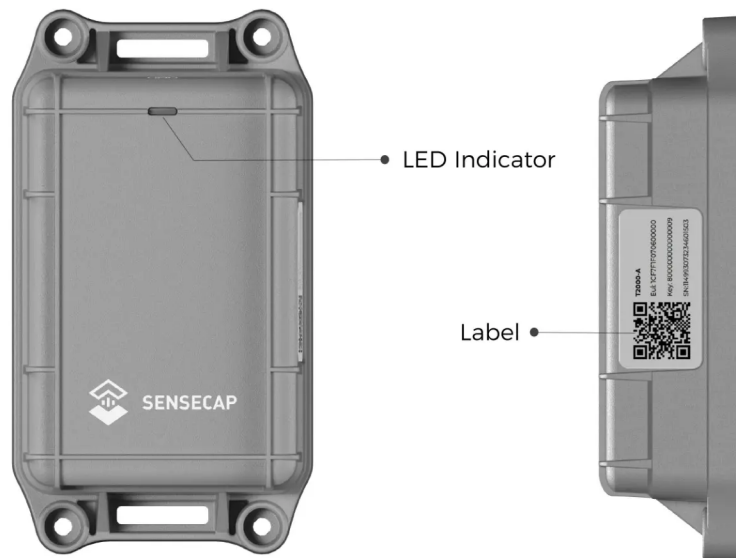


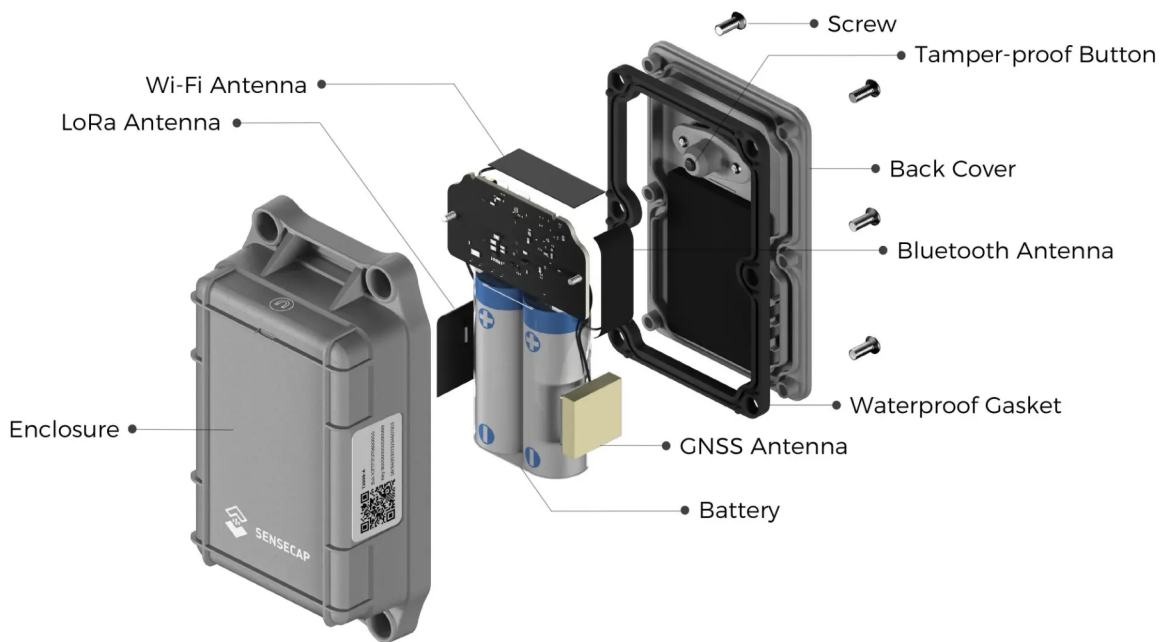


Specification

Parameter	Specification
Product Model	T2000-B
LoRa Frequency Band	EU868, US915, IN865, AU915, AS923, KR920, RU864
Positioning Method	GNSS : L76K GPS L1 C/A, QZSS L1: 1575.42 MHz GLONASS L1: 1602.5625 MHz BeiDou B1: 1561.098 MHz
	BLE: nRF52840 Bluetooth 5.0
	WiFi: ESP8684 Passive Scan
Operating Temperature	-40 ~ 85°C
Power Supply	Primary Battery
Battery Type / Capacity	Li/SOCI2 (ER18505) / 8000mAh
Enclosure Material	PC + 10% Glass Fiber
3-Axis Accelerometer	3-Axis Accelerometer to detect movement
Protection Rating	IP67
Dimensions	117x65x30mm
Weight	180g
Certification	FCC CE ATEX

Hardware Overview





Applications

- **Smart Agriculture:** Tracking and scheduling large agricultural machinery like tractors and harvesters, recording working hours, and preventing theft; Monitoring the activity range of large livestock such as cattle and horses.
- **Construction & Engineering:** Anti-theft, location tracking, and utilization analysis of heavy machinery like excavators, bulldozers and cranes; Management of rental equipment such as generators.
- **Logistics & Transportation:** End-to-end tracking and security monitoring of international shipping containers, large trailers, railway freight cars, and cold chain cargo.

Part List

SenseCAP Asset Tracker T2000	x1
Magnetic	x1
Screw Installation Kit	x1
3M Sticker	x1
Quick Start	x1

Compliance & Logistics



HSCODE	8526919090
USHSCODE	8526910040
UPC	
EUHSCODE	8517180000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
 - (2) this device must accept any interference received, including interference that may cause undesired operation.
- 15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/SenseCAP-Asset-Tracker-T2000-B-p-6581.html>
- [SenseCAP T2000 Tracker User Guide](#)
- [SenseCAP Tracker T2000 Battery Calculator](#)
- [SenseCAP Tracker T2000 ATEX Certification](#)

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