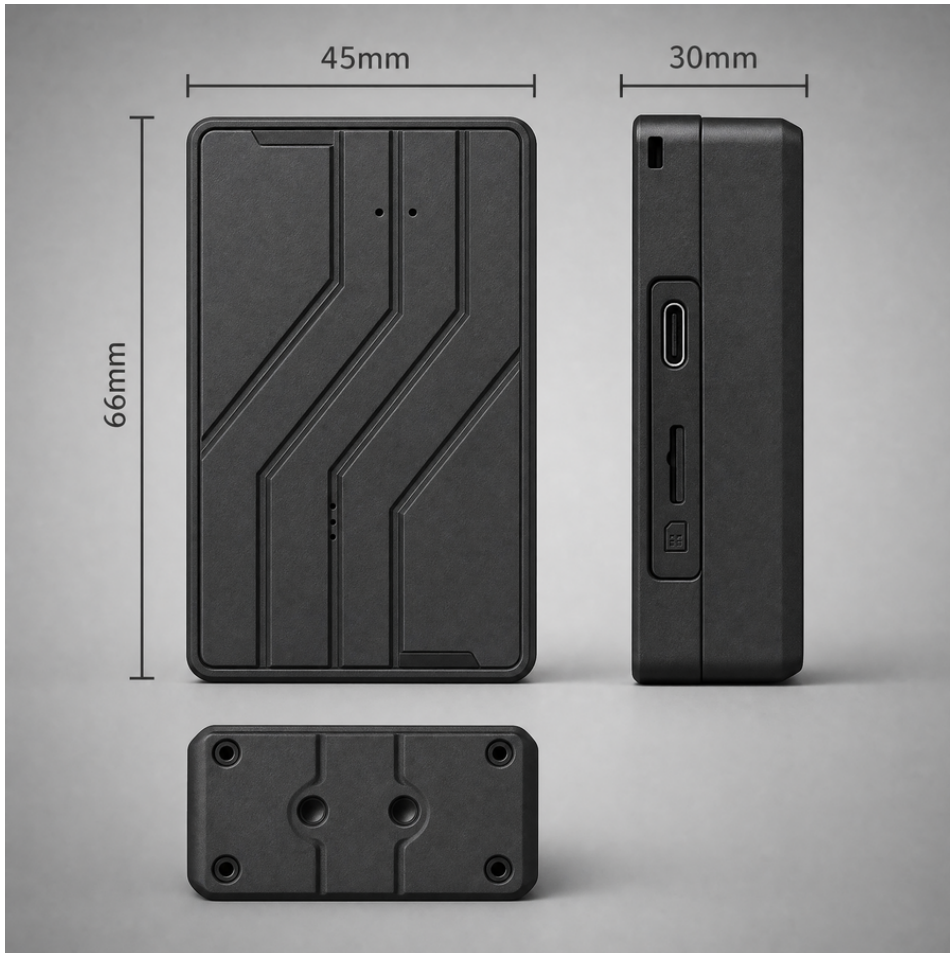




CH52

ASSET TRACKER

GPS + BDS | 4G LTE Cat-1 / NB-IoT | 6,000 mAh | 40+ Days Battery Life



Product Overview

Introducing the CH52 Asset Tracker

The CH52 is a high-performance asset tracking device that integrates GPS+BDS dual-satellite precision positioning, Wi-Fi indoor positioning, Bluetooth data transmission, a 3-axis motion accelerometer, and LTE CAT-1 / NB-IoT dual-mode cellular communication. Operating on the nationwide 4G LTE networks of China Mobile, China Telecom, and China Unicom, the CH52 provides real-time location tracking with exceptional accuracy and reliability.

Encased in a sleek, durable ABS plastic housing with a powerful 6,000 mAh built-in rechargeable lithium battery, the CH52 delivers up to 40+ days of continuous operation. An IP65 waterproof rating, built-in magnetic mounting, and a versatile USB expansion interface make it the ideal solution for fixed asset management, vehicle fleet tracking, agricultural machinery monitoring, airport ground support equipment tracking, and cold chain logistics.

Technical Specifications

Parameter		Parameter	
Model	CH52	Typical Battery Life	40+ days (1 position report per hour)
Dimensions (L x W x H)	66 x 45 x 30 mm	Charging Interface	USB magnetic charging cable (5 V / 2 A)
Weight	Approx. 120 g	Full Charge Time	Approx. 6 ~ 8 hours
Housing Material	High-quality ABS Plastic	SIM Card	Nano SIM (4G); dedicated side slot with cover
Color Options	White (default); customizable o	Data / Sensor Interface	USB 2.0 (external sensor expansion)
Positioning	GPS + BDS (BeiDou) dual-sate	Water / Dust Resistance	IP65 (USB port with waterproof cover)
Positioning Accuracy	< 5 m (open sky, GPS+BDS)	Mounting	Built-in magnetic back; optional screw / adhes
Cellular Communication	4G LTE Cat-1 + NB-IoT dual-mr	Operating Temperature	-20 °C to +60 °C
LTE-FDD Bands	B1 / B3 / B5 / B8	Storage Temperature	-30 °C to +75 °C
LTE-TDD Bands	B34 / B38 / B39 / B40 / B41	Humidity Range	5 % ~ 95 % RH (non-condensing)
Bluetooth	BLE 4.2 / 5.0 (data transmissio	Report Interval	User-configurable: 1 min ~ 24 h
Sensors	3-axis accelerometer (motion /	LED Indicators	Power (red/green), GPS fix (blue), Network (g
Battery Type	Built-in rechargeable lithium po	Certifications	CE / RoHS (FCC pending)
Battery Capacity	6,000 mAh		

Key Features

Advanced capabilities for professional asset tracking

1

GPS + BDS Dual-Satellite Positioning

Sub-5-meter outdoor accuracy with simultaneous GPS and BeiDou reception. Single-constellation mode (GPS-only or BDS-only) supported. Wi-Fi assisted positioning provides seamless indoor-outdoor transition.

2

4G Cat-1 + NB-IoT Dual-Mode Communication

Intelligent network selection between high-bandwidth 4G LTE Cat-1 and deep-coverage NB-IoT. Cat-1 enables real-time tracking; NB-IoT excels in underground parking, remote rural areas, and power-constrained deployments.

3

Real-Time Monitoring & Motion Sensing

Built-in 3-axis accelerometer detects movement, vibration, and stationary states. Instant alerts for unauthorized motion. Continuous device health monitoring with cloud-based status dashboard.

4

Historical Track Playback

Non-deletable position records stored securely in the cloud. Interactive map-based playback with speed, direction, and timestamp overlay. Exportable reports for compliance and audit purposes.

5

Electronic Geofencing

Define multiple virtual perimeters. Instant push notifications and SMS alerts on entry/exit events. Configurable alert schedules and escalation rules for different zones and time periods.

6

Ultra-Low Power Architecture

Optimized power management delivers 40+ days on a single charge (6,000 mAh battery). Adaptive sleep modes and configurable reporting frequency maximize deployment duration. Ideal for long-term unattended tracking scenarios.

7

IP65 Waterproof & Rugged Enclosure

Sealed ABS housing withstands rain, dust, and splashing water. USB port with integrated waterproof cover. Built-in high-strength magnet enables tool-free attachment to any ferrous metal surface.

8

USB Expansion for External Sensors

Onboard USB 2.0 interface supports third-party sensors: temperature, humidity, fuel level, door open/close, and more. Extend the CH52 into a versatile IoT hub for industry-specific monitoring requirements.

How to Use

Getting started with the CH52 in six simple steps

STEP 1

Install the SIM Card

Open the side SIM slot cover. Insert an activated Nano SIM card (4G data plan required) with the gold contacts facing downward. Press to click into place, then close the cover firmly to maintain the IP65 waterproof seal.

STEP 2

Charge the Battery

Connect the included USB magnetic charging cable to the device and any standard 5V/2A USB power adapter. The LED glows red while charging and turns solid green when full. A complete charge takes approximately 6–8 hours. Charge fully before first use.

STEP 3

Install the Mobile App

Download "Shengxin Track" from the Apple App Store (iOS) or Google Play Store (Android). Alternatively, scan the QR code included in the product box. Register an account with your email address or mobile phone number.

STEP 4

Activate & Bind the Device

Log into the app and tap "Add Device." Scan the QR code on the device label, or manually enter the 15-digit IMEI printed on the unit. Follow the on-screen prompts to bind the device to your account. The network LED flashes green when connectivity is established.

STEP 5

Mount the Device

Attach the device via the built-in magnetic back to any ferrous metal surface. For non-metallic surfaces, use the optional screw/adhesive mounting bracket. Ensure the top face of the device has an unobstructed view of the sky for optimal GPS reception.

STEP 6

Configure & Monitor

Use the app or web dashboard to set the position reporting interval (1 min to 24 h), create geofences, enable motion alerts, and customize notification preferences. View real-time location, playback historical tracks, and manage multiple devices from a single unified interface.

Application Scenarios

Proven solutions across demanding industries

AIRPORT BAGGAGE & GROUND SUPPORT EQUIPMENT



Track baggage transport vehicles in real time across airport terminals and aprons. Passengers can follow their luggage location via mobile app, eliminating lost-baggage anxiety. Ground handlers gain full operational visibility.

Benefits:

- Real-time baggage cart/dolly tracking
- Passenger luggage visibility via app
- Improved turnaround efficiency
- Theft and misrouting prevention
- SLA compliance reporting

AGRICULTURE & HARVESTING MACHINERY



During harvest season, coordinate fleets across vast fields. The CH52 logs harvester routes per field sector, enabling managers to verify complete coverage, optimize routing, and schedule maintenance based on actual engine hours and mileage.

Benefits:

- Harvest area GPS verification
- Predictive maintenance scheduling
- Fuel consumption optimization
- Fleet dispatch coordination
- Yield-per-sector analysis

ADDITIONAL APPLICATION AREAS

+ Fixed Asset Management Track assets across warehouses, factories, and campuses. Eliminate manual audits. Receive instant alerts on unauthorized asset movement.

+ Real-time Fleet Tracking Real-time location and cargo monitoring. Route compliance verification. ETA prediction. API integration with existing TMS platforms.

+ Cold Chain Monitoring Cold chain monitoring probes for end-to-end cold chain visibility. Real-time alerts on temperature excursions. Ideal for pharma and fresh food logistics.

+ Construction Equipment Track heavy machinery across job sites. Geofence-based theft prevention. Equipment utilization analytics to optimize rental and purchasing decisions.

+ Rental Fleet Management Automated check-in/out. Real-time fleet location. Usage pattern analysis to right-size inventory and reduce idle equipment.

+ Smart City Infrastructure Monitor public assets like waste containers, streetlights, public bikes. Data-driven maintenance routing and resource allocation for urban operations.

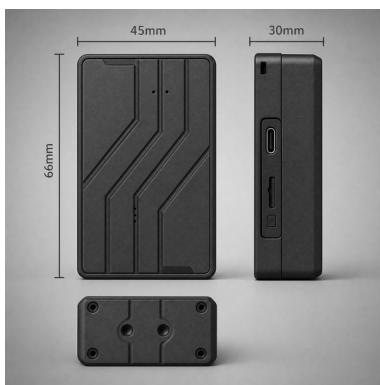
Package Contents

Item	Qty	Description
CH52 Asset Tracker	1	Main unit with built-in 6,000 mAh battery
USB Magnetic Charging Cable	1	1.2 m cable, magnetic connector
Nano SIM Eject Tool	1	Metal pin for SIM card installation
Quick Start Guide	1	Illustrated English setup manual
Mounting Bracket	Opt.	Screw / adhesive for non-magnetic surfaces
Silicone Protective Case	Opt.	Extra shock and dust protection

Ordering Information

Product Model	CH52
Part Number / SKU	SX-CH52-4G-V1.0
Minimum Order Quantity	100 units (evaluation samples available)
Lead Time	7 ~ 15 business days (volume-dependent)
Customization Options	Logo, color, packaging, firmware branding
Standard Warranty	12 months
Technical Support	Lifetime free support & firmware updates

Product Dimensions



L x W x H: 66 x 45 x 30 mm

Compact, lightweight design for discreet installation.

Fits comfortably in the palm of your hand.

Magnetic back allows attachment in seconds.

About Shengxin Electronics



Suzhou Shengxin Electronic Technology Co., Ltd. is a high-technology enterprise dedicated to research, development, and manufacturing of Internet of Things (IoT) solutions. We deliver end-to-end IoT systems encompassing signal acquisition, wireless communication, data processing, terminal visualization, and integrated control platforms.

With extensive independent intellectual property in the IoT domain and strategic collaborations with leading global enterprises, Shengxin stands at the forefront of narrowband cellular IoT innovation. Our products and solutions serve customers worldwide across asset tracking, fleet management, cold chain logistics, smart agriculture, industrial condition monitoring, and smart city infrastructure.

We are committed to delivering reliable, innovative, and cost-effective IoT solutions that empower our customers to achieve digital transformation and operational excellence.

CONTACT US

We look forward to discussing your requirements

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