

G15

OBD VEHICLE TRACKER

Product Specifications

Ver:1.0



1、Introduction

1.1 Summary

The G15 is a compact OBD vehicle tracker specifically designed for fleet management. This device features a standard OBD II interface for quick, plug-and-play installation that won't interfere with driving.

For enhanced tracking accuracy and speed, the G15 utilizes multiple positioning technologies including BeiDou, GPS, Wi-Fi, and cellular tower triangulation, complemented by AGPS (Assisted GPS) capabilities.



1.2 Applications

Insurance industry, corporate fleets, automotive manufacturers/4S stores, individual users, electric vehicle anti-theft systems, public transport, taxis, rental vehicles, etc

1.3 Packing List

Device	*1
Pry Opening Tool	*1

2、Hardware Specifications

#	Functions		Description
Electricity Character	Work Voltage		DC 9V - 36V
	Operating current		12V/ average 25mA
	Sleep current		12V/ average 5mA
	Internal Battery		50mAh (3.7V Polymer battery)
Environment Character	Work Temp		-20℃ - 70℃
	Storage Temp		-30℃ - 80℃
	Work Humidity		10%-85% RH non-condensing

	Frequency Bands	SA	LTE/4G	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66
		EU	LTE/4G	LTE-FDD:B1/B3/B5/B7/B8/B20
		CN	LTE/4G	LTE-FDD:B1/B3/B5//B8 LTE-FDD:B34/B38/B39/B40/B41
	SIM card		Nano SIM 卡	
	Antenna		Built-in antenna	
	Antenna spec		fpc antenna	
GPS/BD Location Character	Chip Model		AT6558R	
	Location mode		BDS+GPS	
	Cold Start		32S(open sky)	
	Hot Start		1S(open sky)	
	Sensitivity (tracking)		-162 dBm	
	Locate the antenna		Built-in ceramic dielectric antenna	
	Antenna spec		18mm * 18mm * 2mm	
	GPS frequency bands		L1: 1575.42±1.023MHz	
	BDS frequency bands		B1: 1561.098±2.046MHz	
	Satellite channel		66	
	Location accuracy		<10m	
	Timing accuracy		<30ns	
Shape	Speed measurement accuracy		<0.1m/s	
	Device Dimension		47(L)*24(W)*31.5(H) mm	
	Housing Material		ABS+PC plastic	
	Unit weight		25g	

3、Key Features

Functions	Description
Real time tracking	Positioning accuracy <10m in open outdoor environments
Power cut off alarm	The device will trigger a power cut off alarm when the external power is disconnected or the connecting cable is cut
Fall detection alarm	After the device is installed and the device posture is identified, the device will report a fall detection alarm when the device posture changes.
Tamper alarm	Report a tamper alarm when the device is removed
Driver behavior analysis	Harsh Acceleration: When the driver suddenly presses the accelerator

	<p>pedal, causing the vehicle's speed to increase rapidly, the device reports a harsh acceleration event to the platform.</p> <p>Harsh Deceleration: When the vehicle's speed decreases rapidly due to emergency braking, the device reports a harsh deceleration event to the platform.</p> <p>Harsh Turning: When the vehicle makes a harsh turning during normal driving, the device reports a sharp turn event to the platform.</p> <p>Collision: When the vehicle collides with another object or vehicle during normal driving, the device reports a collision event to the platform.</p>
Low external battery alarm	When the device detects that the external power voltage is lower than the set threshold, the device will trigger an low external power battery alarm.
Low internal battery alarm	When the device detects that the internal battery voltage is lower than the set threshold, the device will trigger an low internal battery battery alarm.
Overspeed alarm	<p>The vehicle speed threshold can be set through the platform or SMS.</p> <p>When the vehicle's speed exceeds the threshold within the set time, an overspeed alarm will be reported.</p>
Vibration alarm	When the vehicle ignition is off and in a stationary state, the device detects vehicle vibration and a vibration alarm will be reported.

4、Installation

4.1 Main device

Check if the appearance is in good condition and verify all relevant accessories are present.

4.2 Insert SIM Card

4.2.1 Choose appropriate SIM Card

Please choose a 4G LTE-FDD supported nano SIM card like below:



Normal ☐

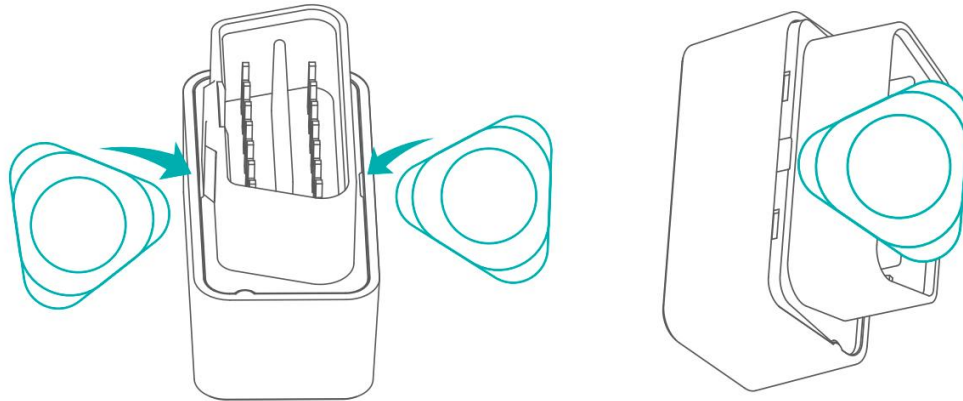


Micro ☐

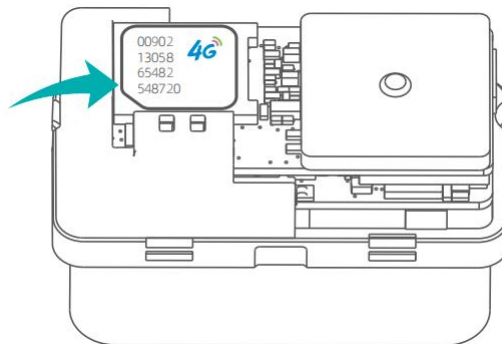


Nano ☒

4.2.2 To open the device cover, carefully insert a pry tool into the notches on both sides of the unit and gently lift the top cover.



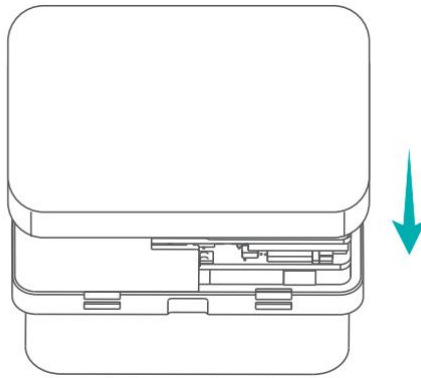
4.2.3 Open the SIM card holder and insert the SIM card. The device will automatically power on once the SIM card is properly installed.



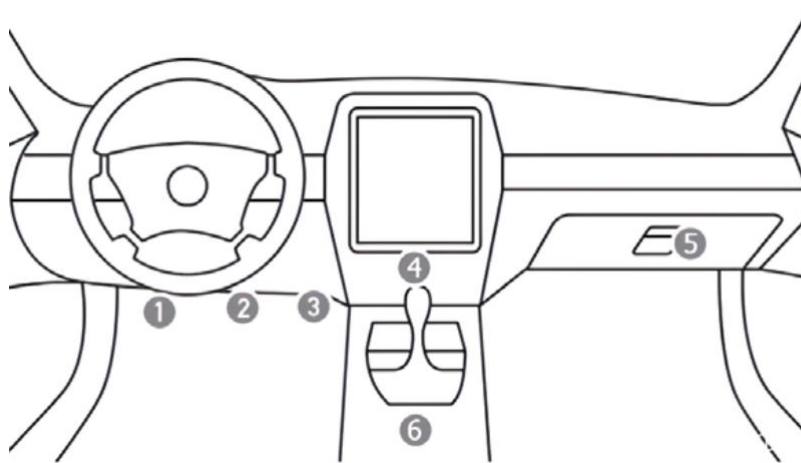
Note:

- A. Ensure correct orientation when inserting the SIM card
- B. The SIM card must have an active data plan with GPRS service
- C. Maintain sufficient credit/balance on the SIM card
- D. ALWAYS disconnect external power before inserting or removing the SIM card

4.2.4 Replace the top cover and press firmly until it clicks into place.



4.2.5 Locating the OBD Port. The OBD port is a 16-pin female connector with a trapezoidal shape. Common locations for the OBD port vary by vehicle model. The port may be covered by a protective cap and typically appears in black, white, or blue.



4.3 LED Indicators

Green Light (GSM):

Status	meaning
Flashing	Network initiating
Solid on	Connected to platform
Solid Off	No network signal or no SIM card

Blue Light (GPS):

Status	meaning
Flashing	Searching satellites
Solid on	Position fixed
Solid Off	In sleep mode or not working

Note:

When the device is in a static sleep mode, the LED indicators will turn off automatically. When the device is in

motion, the indicator lights will all turn on automatically.

5、APP

Please log in to the APP or the location services platform provided by your distributor to configure settings and operate device features.



iOS



Android

6、Appendix

6.1 Battery Security

(1) Use only original batteries. Non-original batteries invalidate warranties

and the manufacturer is not liable for any device damage caused.

(2) Prevent metal objects from shorting battery terminals.

(3) Do not bend or puncture the battery.

(4) Do not immerse or incinerate the battery.

(5) Charge battery near room temperature between 0°C and 45°C.

(6) Do not use damaged, leaking or deformed batteries.

(7) Do not disassemble or modify the battery

6.2 Troubleshooting

Refer to the solutions below if you encounter the following common faults. Contact your distributor or service provider if problems persist.

Fault	Cause	Solution
Poor GPS Signal	Using the device in areas with poor signal reception, such as inside tall buildings or basements	Use the device in an area with good signal reception
	The device is placed face down or obstructed by a metal layer, preventing it from receiving satellite signals	Place the device in the correct orientation or change the installation location
Unable to Power On	Battery is drained	Connect the external power supply

		tocharge the battery
	Fuse blown	Contact the dealer for replacement with a fuse of the same specifications and model
Unable to Connect to Network	SIM card not installed properly	Check the SIM card and reinstall it
	The metal surface of the SIM card is dirty	Clean the metal surface of the SIM card with a clean cloth.
	SIM card is damaged or invalid	Replace the SIM card with a valid one
	Out of service area	Move to the service area of the network service provider.
	Weak signal	Move to a place with a strong signal and try again.
Unable to Charge	Poor contact	Check if the power cable of the device is properly connected
Location can't be fixed	SIM card data service is not activated	Contact the network service provider to activate data service
	SIM card is out of credit	Recharge the SIM card
	No reply to SMS commands	Ensure the device can connect to the network and the SIM card's SMS function is activated

6.3 Warranty

Note:

- (1) The product may be modified in the future without prior notice.
- (2) The actual appearance and color of the product may vary.
- (3) This warranty card is only valid for the presented IMEI number.
- (4) Please keep this warranty card in a safe place. Please present this card and the original receipt when you need warranty service.

Clauses:

- (1) The product is covered by a one-year warranty for non-human-made damage from the date of purchase.
- (2) The following are not covered by the warranty, but may be repaired for a fee:
 - ❖ Beyond the warranty period;
 - ❖ You do not have a valid warranty card or receipt;

- ❖ The equipment or accessories are out of warranty;
- ❖ Product quality problems caused by unauthorized repairs, collisions, liquid ingress, accidents, modifications, incorrect input voltage, or tearing, altering stickers, device IMEI numbers, or anti-counterfeiting marks;
- ❖ Damage caused by incorrect installation or use that does not comply with the product manual requirements;
- ❖ Damage caused by force majeure such as fire, flood, or lightning strike;
- ❖ Warranty certificate does not match the product model or warranty certificate is altered;
- ❖ Damage caused by force majeure.