

4G full network waterproof body

GPS locator

Instruction Manual

Waterproof And Dustproof

IP65 waterproof design, can adapt to most environments, and is easy to use



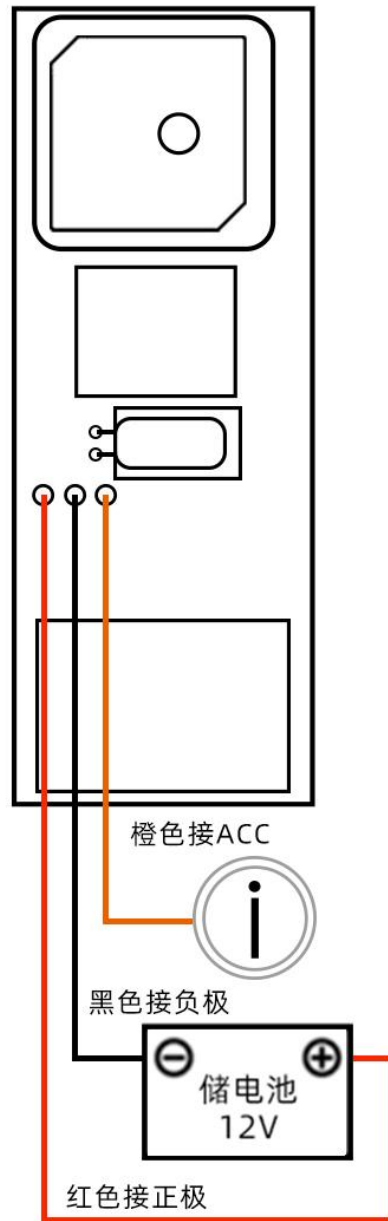
Table of contents

一、Features	3
二、Product structure description	4
三、Product parameters	5
四、Product basic functions	6
五、Analysis and troubleshooting of common problems	7
六、Precautions	8
七、After-sales service	9

一、Features

- 4G built-in antenna, highly integrated design
- 9-90V wide voltage, real-time positioning tracking, trajectory playback
- Supports vibration alarm, speed alarm, and electronic fence alarm
- Vehicle ignition and stall detection
- Easy installation, no need to press the power button, it works immediately after powering on
- Built-in backup battery, alarm and reminder immediately if illegal removal
- GPS+Beidou+LBS triple positioning

二、Product structure description



三、Product parameters

Specification content Specification parameters	Specification content Specification parameters
size	90. 8*53. 9*21. 6mm
weight	64. 4g (battery included)
Operating Voltage	9 - 90V
Built-in battery	100mAH (3. 7V)
Operating temperature	-20° C to+60° C
Storage temperature	-20° C to+70° C
sensor	Precision vibration sensor
frequency band	LTE - FDD: B1/B3/B5/B8 LTE - TDD: B34/B38/B39/B40/B41
Communication module brand/chip model	A7670C_LASL
Locate module brand/chip model	QUECTEL_AT6558
root mean square error	S degree
Maximum output power	LTE-FDD B1/B3/B5/B8: 23dBm±2dB/<-39dBm LTE-TDD B34/B38/B39/B40/B41: 23dBm±2dB/<-39dBm
Dynamic output range	-15~-108dbm
Receive sensitivity	-107dbm
Maximum frequency error	±0. 1ppm
Sensitivity	Cold boot: -147 dbm Warm boot: -155 dbm Recapture: -158 dbm Tracking: -160dbm
First location time	Cold start: average 32 seconds

LTE 4G antenna	built-in
GPS antenna	built-in
LED indicator light	power, indicating status
Transfer Protocol	TCP
Power detection	Upload alarm information when main power is disconnected
Data reporting	Update GPS data in real time and support customer customization
electric fence	TBD
Driving behavior detection	If the vehicle's driving speed exceeds the set speed, an overspeed alarm is uploaded.
GPS data	Real-time location updates
Vibration alarm	Vibration reporting of vehicles in fortified state

四、Product basic functions

Content Function Description	Content Function Description	Content Function Description
GPS	4G full network communication	Supports 4G network, efficient transmission within 1 second, faster and more accurate.
	Regular tracking	Positioning information such as longitude and latitude is returned according to the set interval.
	street view map	360-degree high-definition map with no blind spots
	speed alarm	When driving over the speed limit, the locator will send an alarm to your mobile phone

	Vibration alarm	Built-in vibration sensor, if the vehicle continuously vibrates, the device will immediately send an alarm prompt
	electric fence	If the car's driving range exceeds the specified area, an alarm message will be sent to the platform.
	historical trajectory	It can play back 365 days of driving tracks, including vehicle speed, direction dwell time, etc.
	Displacement alarm	When the vehicle is illegally operated or stolen, the fuel and electricity can be cut off remotely through the computer or mobile APP.
	fleet management	One mobile phone can manage multiple devices, or one device can be managed by multiple mobile phones.

五、 Analysis and troubleshooting of common problems

This product shows that the yellow and blue lights are always on but not flashing, which means it is normally online. If flashing occurs, please follow the steps below to analyze and troubleshoot the problem.

Fault phenomenon Fault analysis	Fault phenomenon Fault analysis Treatment method	Fault phenomenon Fault analysis Treatment method
Blue light flashes slowly	Determine whether to use the terminal in areas with poor GPS signal, such as near high-rise buildings or underground parking lots.	Drive the vehicle to a location with good signal and use the terminal

	Determine whether the vehicle's front windshield is covered with metal insulation film that affects signal reception	If there is a film, change the device to another vehicle to test whether the blue light is always on. If there is no problem when testing on other vehicles without film, it is caused by the film on the vehicle.
	Determine whether there are jammers or signal jammers on or around the vehicle	If there is a shield or interference source, remove the shield or interference source and try to reinstall it.
Blue light flashes quickly. Chip failure. Return to factory for repair.	Blue light flashes quickly. Chip failure. Return to factory for repair.	Blue light flashes quickly. Chip failure. Return to factory for repair.
Yellow light flashes quickly	Determine whether the SIM card is installed properly Check	Determine whether the SIM card is installed properly Check whether the
	Determine whether there is dirt or poor contact on the metal surface of the SIM card. Wipe the metal chip surface with a clean cloth or insert and remove the card several times.	Determine whether there is dirt or poor contact on the metal surface of the SIM card. Wipe the metal chip surface with a clean cloth or insert and remove the card several times.
Yellow light flashes slowly	Determine whether the vehicle is in a place without mobile network such as an underground	Please drive the vehicle to a place with good network signal and try to reinstall it.
	Determine whether the server background is normal. Ask the background management platform whether the server is normal.	Determine whether the server background is normal. Ask the background management platform whether the server is normal.
	Determine whether the SIM card status is normal. Check whether the card status is normal through the SIM card	Determine whether the SIM card status is normal. Check whether the card status is normal through the SIM card query platform.

	Determine whether there is a jammer or signal jammer on or around the car. If there is a jammer or interference source,	Determine whether there is a jammer or signal jammer on or around the car. If there is a jammer or interference source, remove the jammer or
--	---	--

六、Precautions

1. Please pay attention to waterproofing of electronic products.
2. Please insert the SIM card before installation and make sure there is no password set on the SIM card, otherwise the device will not work properly.
3. The USB port on the terminal device is used exclusively for factory testing and is not a device charging port. Please do not use it for charging or other purposes.
4. The installation location must be above a place that is not blocked by electromagnetic wave absorbing materials (such as metal, explosion-proof insulation film).
5. Never expose the device to liquids or operate it with wet hands.
6. Do not throw the device into fire
7. The device may not work when the temperature is lower than -20°C or higher than $+60^{\circ}\text{C}$.
8. When the vehicle is in an underground parking lot, tunnel or garage, it will affect the positioning signal. There may be a blind spot in the communication network signal, causing the equipment to be unable to monitor; when the vehicle drives out of the above area, the equipment will automatically resume normal operation.
9. If you encounter abnormal conditions, please do not repair it yourself. The manufacturer is not responsible for damage caused by connecting

non-original accessories or unplugging connections between components.

10. This product is a safe driving assistance product, and our company has nothing to do with any losses caused by malfunctions or information loss.
11. This product has passed the international CE certification. However, due to the complex electromagnetic environment in the car, this product may cause electromagnetic interference with the electrical equipment in the car in some models.
12. Do not install or operate this product while the vehicle is moving.
13. Please do not connect the uninterruptible power supply without authorization, otherwise it may cause car or product failure. Please be sure to consult professionals regarding installation matters.
14. Do not subject this product to strong impact or vibration to avoid damage to the product, resulting in malfunction or inoperability.
15. The temperature range for normal use of this product is -20 degrees Celsius to 65 degrees Celsius. Exceeding this temperature range may cause product failure, fire or explosion.

七、After-sales service

1. This product enjoys three-month replacement and one-year warranty services from the date of shipment. If the equipment is damaged during the warranty period due to non-human factors or product quality, please contact the dealer in time.
2. Damage caused by unauthorized dismantling by customers or force majeure (such as floods, vehicle accidents) will not be repaired.
3. After the warranty expires, if the product is damaged or malfunctions due to use, the cost of repair materials will be charged.
4. Provide customers with free consultation and technical services on product purchase, use, and APP installation.