



Fueling your fleet
with intelligence.

LL303

LTE Solar Powered
Asset Tracker
INSTALL GUIDE

Features



GPS/BDS/WIFI/LBS



Tamper alert



Vibrating alert



Low battery alert



Solar charging

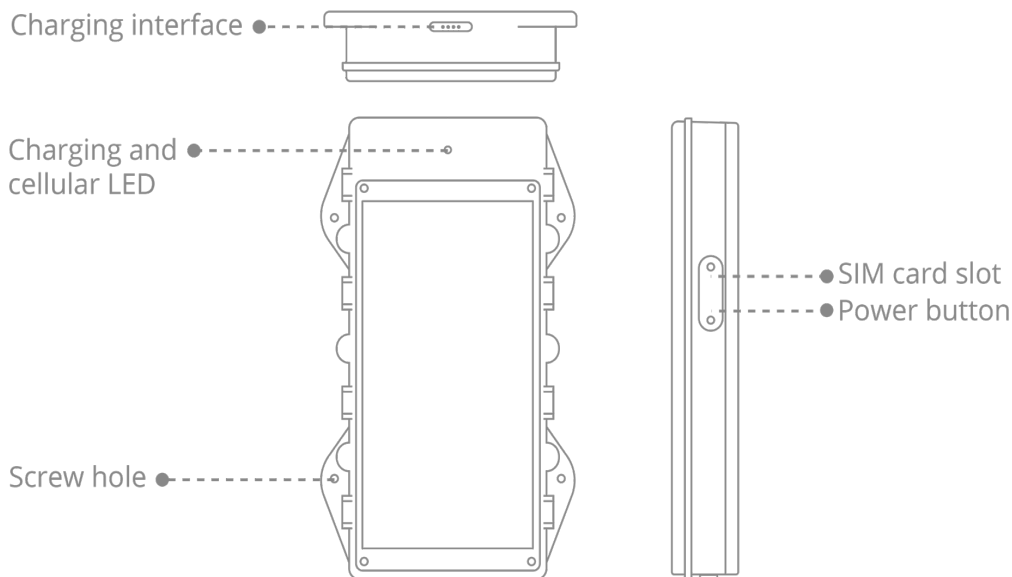
Specifications

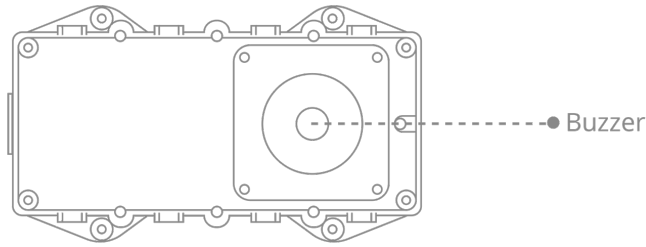
| | |
|-------------------------------|---|
| GNSS accuracy | < 10m |
| Weight | 480g (excluding base) |
| Dimensions (LxWxH) | 200x90x25mm (excluding mounting holes) |
| Operating current | 120mA |
| Battery | Rechargeable Li-Polymer 10000 mAh/ 3.7V |
| Charging & Data Communication | Magnetic USB cable |
| Solar Panel | For charging the tracker battery |
| Waterproof | IP67 |
| Operating Temperature | -25°C ~ +70°C (-13°F ~ 158°F) |

Tips:

Please check the received package to see if all accessories are included. The accessories are subject to actual items. As the product is in constant upgrade, no prior notification will be sent to you for any update in this User Manual.

Appearance





LEDs

Green (Cellular)

| Status | Meaning |
|---------------------------------|-----------------------------------|
| Fast blink [0.3s-0.3s (on-off)] | Network initializing |
| Slow blink [0.1s-3s (on-off)] | The device is in a call/online |
| Solid on | No SIM card or SIM card error |
| Slow blink [1s-3s (on-off)] | Unable to connect to the platform |

Red (Power/Work Status)

| Status | Meaning |
|---------------------------------|--|
| Fast blink [0.3s-0.3s (on-off)] | The battery is low |
| Slow blink [0.3s-3s (on-off)] | The device works properly/The charging is complete |
| Solid on | Device charging (via cable) |
| Slow blink [0.3s-5s (on-off)] | Device charging (via solar power) |
| Off | The battery is under voltage or encounters an internal failure |

Use Instruction

Charging

Connect the device with a 5V/2A charger (which should be purchased separately). The LED is solid on when the device is charging and turns to blink slowly when the charging is complete.

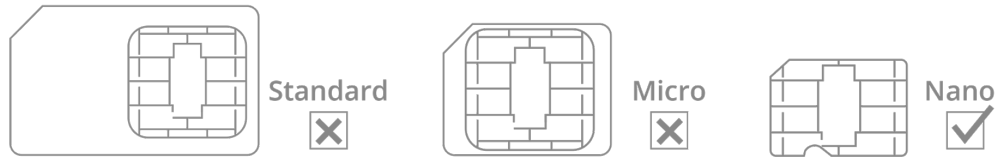


Note: If the battery is exhausted, the charging will take about 6 hours to full. It is normal that the device will heat up slightly during charging.

SIM Card Attachment

Step 1: Prepare a proper SIM card;

The size of the card is as follows:

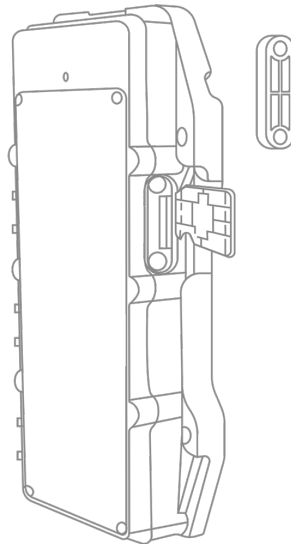


Step 2: Please use the screwdriver in the package to open the waterproof cover on the side of the device and insert the SIM card in place, as the following figure shows:

(Note: The device must be powered off before removing the SIM; otherwise, the SIM may be burned.)

Step 3: Please use the Eject Pin in the package to switch the power button of the device to the power on position

Step 4: Please put the waterproof cover back on the device, and be sure to tighten the anti-theft screws to prevent water from entering. In case the anti-theft screws are lost, there are four spare screws in the package

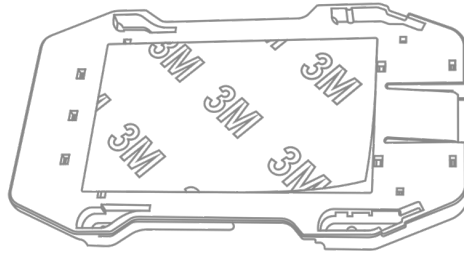


Note: The SIM card must be inserted correctly, has GPRS services activated, and is not in arrears. If the SIM is identified and requires a PIN, please disable the PIN request.

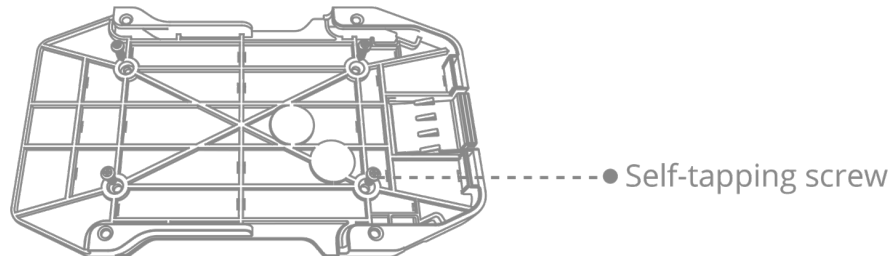
Installation

Note: Please use the charging cable in the package to fully charge the device before installing the device.

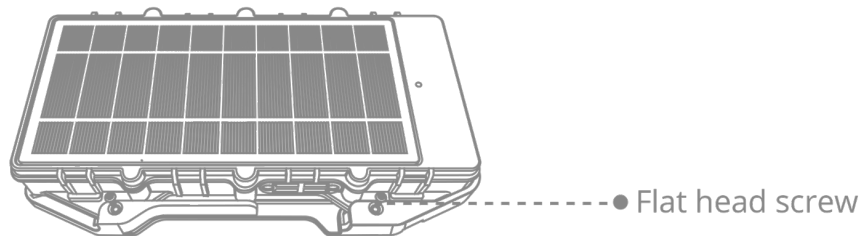
Step 1: Please choose a suitable installation location, which should be open and unobstructed. Then tear off the adhesive tape on the base of the device and stick the base to the installation position.



Step 2: Use four self-tapping screws to further secure the base to the installation location.



Step 3: Slide the device onto the base to secure it, then secure it further with four flat head screws.



Alert Functions

● Tamper alert

The device will upload a tamper alert if it is forcibly removed.

● Vibrating alert

If the device detects vibration during mode 2 operation, it will upload a vibration alarm.

● Low battery alert

The device will upload a low battery alert if it detects its battery strength to be lower than 20% .

RFID

LL303 supports RFID broadcasting function and must be used in conjunction with a dedicated scanner.

Precautions About Battery

Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types); disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion; leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Troubleshooting

When a problem arises, you can troubleshoot it by the following solution. If the problem persists, please don't hesitate to contact your dealer or service provider.

| Common Issues | Possible Causes | Solutions |
|-------------------------------------|--|---|
| Poor signal | The device is used in an area where radio waves cannot reach, such as near high-rise buildings or in a basement. | Try it in a place where satellite signals can be well received. |
| Power-on failure | The battery is exhausted. | Charge the device. |
| Failed to access the network | The SIM card may be attached improperly. | Check the SIM. |
| | The metal side of the SIM card is stained. | Clean it with an eraser. |
| | The SIM is invalid. | Please contact your network service provider. |
| | The device is out of GSM service areas. | Try it in a service area. |
| | The signal is extremely weak. | Try it in an area with strong signals. |
| Failed to query a location | The SIM is not activated with the GPRS service. | Please contact your network service provider and activate the GPRS service. |
| | The device keeps replying with "No data found, please try again". | Please contact your dealer. |

FCC warning

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

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 and, if not installed and used in accordance with the instructions, 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.

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.

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The product specifications and information in this document are for reference only and no prior notice will be given if any change is made. Unless otherwise stated, the content of this document is not a guarantee in any form.

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