JimiIoT LL309 Temperature and Humidity Monitoring Tracker User Manual

JimiIoT

Making Connections Simpler

LL309

Temperature and Humidity Monitoring Tracker Manual

Version: V1.0
Release Date: 2024-09-12

1 Introduction

1.1 Feature

- GPS/BDS/LBS/WiFi
- Temperature and humidity detection
- Real time data upload
- Local storage of data
- Data record export
- Multiple alarms
- Bluetooth
- IP67 Waterproof

1.2 Specifications

Basic Specifications

Network	4G
Size	100*60*15mm
Weight	108g
Input	5V/2A
Working temperature	-20°C to 70°C
Battery	2500mAh Polymer lithium battery
SIM Card Type	Nano SIM Card
Button	Power Button
LED	GPS Status, Battery Status, Network Status
Interface	USB Type-C
Bluetooth	BLE 5.1

4G Specifications

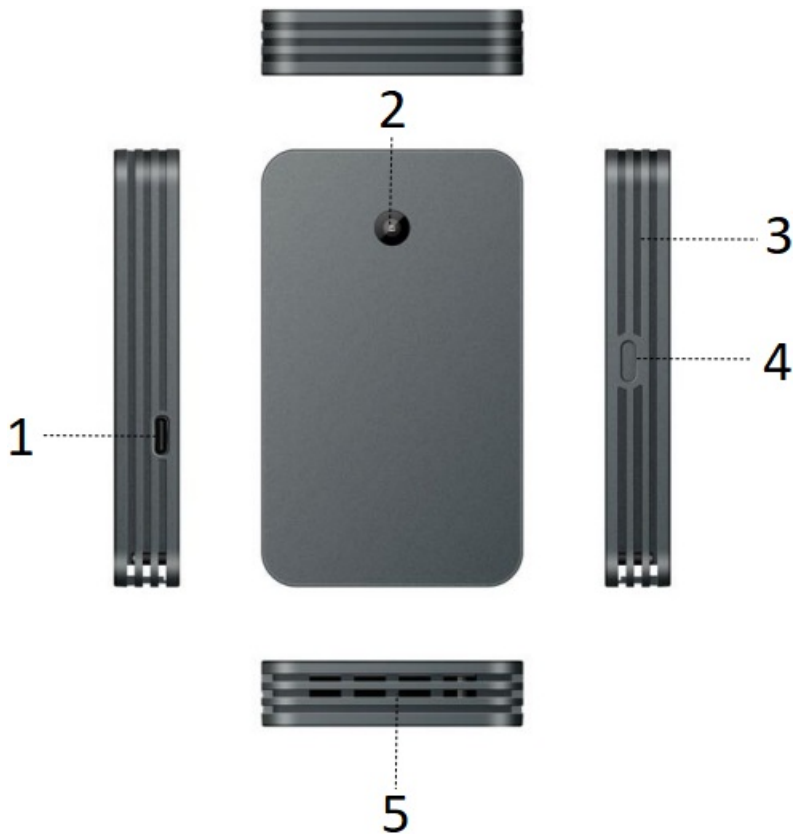|	
Network format	LTE Cat.1
Operating Band -NA (North America)	LTE-FDD: B2/B4/B5/B7/B12/B14/B17/B25/B26/B66 LTE-TDD: B41

GNSS Specifications

GNSS Type	GPS/BDS/LBS
Sensitivity	Autonomous: -148 dBm Tracking: -168 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold start: ≤32s average Hot start: ≤1s average

Sensor Specifications

Sensor type	Temperature and humidity
Temperature range	-20~70°C
Humidity range	0%~100%
Temperature accuracy	±0.3°C
Humidity accuracy	±3%

1.3 Packing List

Appearance	Name	Quantity
	Tracker	1 PCS
	TYPE-C cable	1 PCS
	Adhesive wall hooks	2 PCS

2 Appearance

1. USB Type-C
2. Light Sensor
3. LED

4. Power Button

5. Temperature and Humidity Sensor

3 LED

In the power-on state of the device, pressing the button once allows for the assessment of the GPS, network, and battery status through the LED indicator.

White LED Status	Device Status
Single light illuminated	25% Battery
Double lights illuminated	50% Battery
Triple lights illuminated	75% Battery
All lights illuminated	100% Battery

Green LED Status	Device Status
Quick Flashing	Network initialization
Slow Flashing (0.3s-On 3s-Off Light Cycle)	Already located through GPS
Slow Flashing (1s-On 3s-Off Light Cycle)	GPS not working
Steady Light	No SIM card installed

Blue LED Status	Device Status
Quick Flashing	GPS signal search in progress
Slow Flashing	Already located through GPS
Non-illuminated	GPS not working

4 Use Instruction

4.1 Charging

Connect the device with a 5V/1A 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 3 hours to full. It is normal that the device will heat up slightly during charging.

4.2 Power-On and Off

Press and hold the power button for 3 seconds to turn on or off the device.

Note: The device comes with a SIM card and includes 10MB of free data for the first month. Upon activation, the

device can automatically connect to the network. If the data is used up, you can recharge through the Jimi Global Connectivity Management Platform independently.

4.3 SIM Card Recharge

If you are using the SIM card that comes with our product, please enter the following website or scan the QR code below to access the Jimi Global Connectivity Management Platform for data recharge.
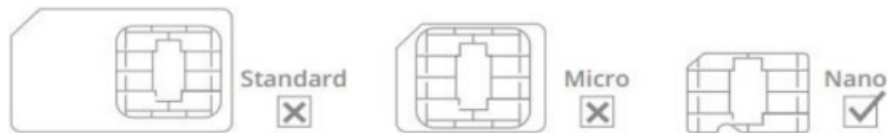

https://global.jimisim.com

4.4 SIM Card Attachment

If you are using a non-company SIM card, please follow the instructions below.

Step 1: Prepare a proper SIM card.

The size of the card is as follows:

Step 2: Carefully unscrew the device to open the cover, gently insert the SIM card into the designated slot. Ensure that the SIM card is properly aligned and firmly seated.

Step 3: After inserting the SIM card, firmly screw the cover back into place to ensure waterproofing.

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.

To avoid damaging the waterproof performance of the equipment, please do not disassemble it frequently.

4.5 Installation

Step 1: Please remove the transparent film from the back of the adhesive wall hook. Adhere the device to one adhesive wall hook securely.

Step 2: Attach the second adhesive wall hook to the desired location where the device needs to be installed.

Step 3: Securely fix the device in its intended position using the two adhesive wall hooks.

Note: When adhering, please ensure the adhesive surface is clean, dust-free, and without water stains. Please

pay attention to the top and bottom orientation of the adhesive wall hook when adhering.

4.6 Working Modes

- MODE 1: Timing Mode

In this mode, the device always has its network services enabled and will upload location data at a fixed interval, which can be configured via the location service platform or mobile app specified by your dealer.

- MODE 2: Intelligent Mode

In this mode, the device can automatically recognize current location conditions and activity status of the vehicle on which it is installed and intelligently choose a positioning system and an upload interval.

- MODE 3: Power-saving Mode

The device will wake up at a certain configured interval to upload location data. After each upload is complete, the device will enter deep sleep and will not execute any remote query or set actions. When an alert is triggered, the device will automatically switch to intelligent mode for a few minutes.

4.7 Alert Functions

- Low Battery Alert

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

- Light Sensing Alert

When the device detects changes in ambient light, it can issue an alarm.

- Temperature and Humidity Alert

When the temperature or humidity is higher or lower than a certain set temperature or humidity, the device will trigger an alarm. When the device exceeds a certain temperature or humidity range, it will also trigger an alarm.

- Vibration Alert

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

4.8 Data Record Export Function

The device is capable of locally storing up to 20,000 entries of GPS, temperature, humidity, and alarm data, and can export the data to a computer using the data cable included in the package.
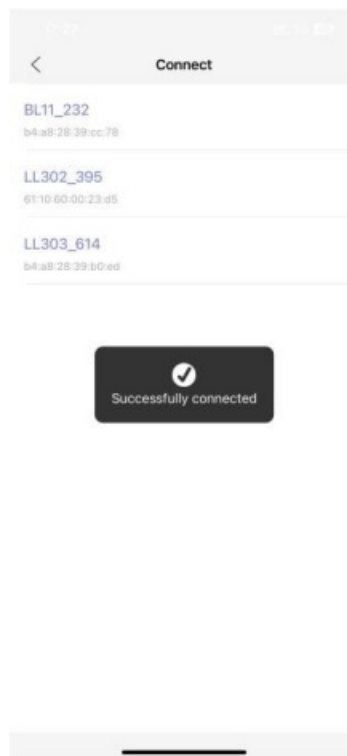
4.9 Bluetooth Configuration

Step 1: Download and install "JIMI IoT Lab" app through APP Store (iOS 11 and above only)
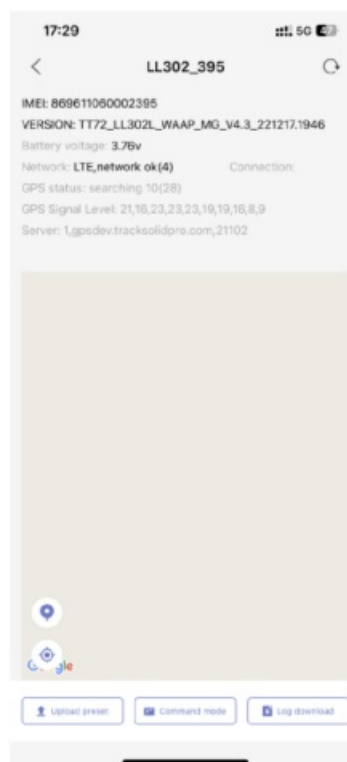
Step 2: Make sure your phone Bluetooth is enabled. Open the application and click "Connect"

Step 3: Turn device on and charge to activate BLE, select your target device to connect.

Step 4: Choose "Command mode" to configure the device.

5 Precautions About Battery

Please use batteries and accessories specified by the manufacturer of the device; otherwise, the warranty will become void.

The manufacturer of the device shall bear no warranty liabilities for any damage resulted from the use of non-original accessories.

Do not soak the battery in water or expose it to fire. Do not bend or forcibly open the battery.

Do not disassemble the battery as the device may be damaged if the disassembly is done improperly by a non-professional.

6 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	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.
	No SIM.	Insert a SIM.
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.

7 Certificates

- 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.

Disclaimer

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Documents / Resources

LL309 Temperature and Humidity Monitoring Tracker Manual	**JimiIoT LL309 Temperature and Humidity Monitoring Tracker** [pdf] User Manual LL309, LL309 Temperature and Humidity Monitoring Tracker, Temperature and Humidity Monitoring Tracker, Humidity Monitoring Tracker, Monitoring Tracker, Tracker

References

- **▼ JIMI Global Connectivity Management Platform**
- **▼ JIMI Global Connectivity Management Platform**
- **User Manual**