

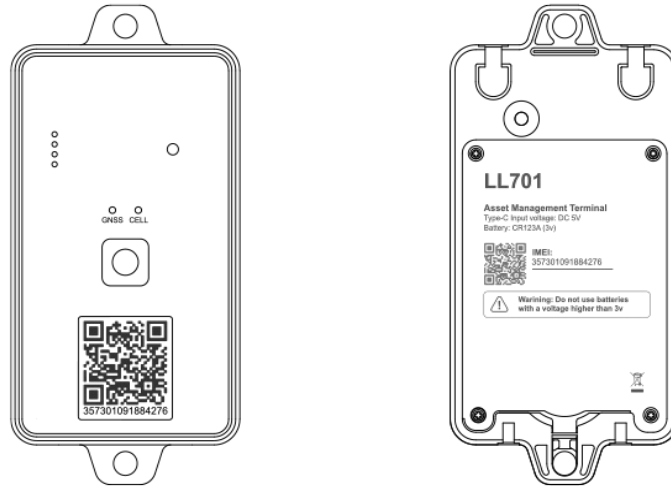


Fueling your fleet
with intelligence.

LL701

LTE Battery
Asset Tracker
INSTALL GUIDE

Product Overview



Specification

GNSS

Positioning system	GPS+LBS+WiFi+Bluetooth GPS+WiFi+Bluetooth GPS+WiFi+Bluetooth, LBS (optional)
Frequency	GPS L1 C/A supported QZSS L1 C/A supported
Positioning accuracy	< 2.5m CEP
Tracking sensitivity	-155dBm
Acquisition sensitivity	-145.5 dBm (cold start); -147 dBm (hot start)
TTF (open sky)	Avg. hot start: ≤ 1 second Avg. cold start: ≤ 36 seconds

Cellular

Communication network	LTE
Frequency bands	LTE CAT-M1: B1, B2, B3, B4, B5, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B66 LTE CAT-NB1/NB2: B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66

Power

Standby time	Up to 5 years (one fix per day)
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Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Micro-SIM
Tamper proof	Light sensor

Product Setup

- Open the socket lid;
- Place the SIM card into the socket (metal side downward);
- Close the socket lid (if the SIM card is incorrectly placed, the lock will fail).

LED Indication

Battery Indication

When the device runs in recycling mode, press its function button ⑤ for 3 seconds and the power LED ② will light on for 4 seconds to tell you the strength of the internal battery.

LED Status	Battery Strength	Min. standby time
4 LEDs on	80% to 100%	1550 days
3 LEDs on	50% to 79%	950 days
2 LEDs on	30% to 49%	550 days
1 LED on	10% to 29%	190 days
1 flashing LED	1% to 9%	Exhausting

Note:

The min. standby time is estimated on the ground that the device generates one fix per day.

GNSS Indication

The GNSS LED ③ is used to show the working status of the device's GNSS module, where:

- Flashing rapidly [on-off (0.1s-0.1s)]: The device is searching for satellite signals;
- Always on: A position has been fixed;
- Off: The GNSS module isn't working.

Cellular Indication

The cellular LED ④ is used to show the network status of the device, where:

- Flashing slowly [on-off (0.1s-0.5s)]: The device is identifying the SIM card;
- Flashing rapidly [on-off (0.1s-0.1s)]: The device is receiving cellular signals;
- Flashing slowly [on-off (0.1s-0.1s)]: The device is online;
- Off: The device fails to receive cellular signals or no SIM card is identified.

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 is hard to 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	No SIM	Insert a SIM.
	Battery switch is not set to ON.	Slide the battery switch to ON.
	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.	Wipe it with a clean cloth.
	The SIM is invalid.	Please contact your network service provider.
	The device is out of 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 data service.	Please contact your network service provider and activate the data 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.