

User guide

LTE GPS Condition Tracker

Model: JM-LL03S

GPS / Wi-Fi ASSET Tracker



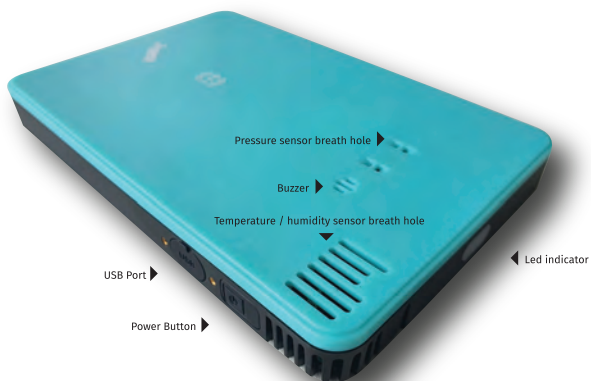
Product overview

The LL03S HERE Advanced Tracker is using GPS, Wi-Fi and BLE positioning to accurately provide its location to HERE Tracking. The tracking device has built-in sensors for motion detection, shock detection, air pressure, temperature and humidity. Furthermore the tracker has a built-in 10.000 mAh battery, an NFC tag and internal data storage. The tracker has standard 4G connectivity included and is IP65 dust and water resistant.

Specification

GSM:	850/900/1800/1900 MHz
LTE:	Cat M1/Cat NB2 GSM/GPRS
CatM1/NB2:	B1/B2/B3/B4/B5/B8/B12/B13/B18 B19/B20/B26/B28/B66
TTFF (open sky)	Avg. cold start: < 40sec Avg. hot start: < 1sec
Location accuracy	GPS < 50 m Wi-Fi/BLE < 10 m
Dimensions	150 x 100 x 17 mm
Weight	310 g
Battery	10.000 mAh 3.7 Li-polymer battery
Operating Temp.	-20 deg °C to + 70 deg °C
Transmit Protocol	TCP
Internal memory	512 MB RAM

Product setup



Configuration

The tracker is already equipped with a 4G SIM card and does not need to be opened before actual use.

Only required activity is to associate the tracker with the project in the HERE platform according the procedure as described below.

- 1 Use HERE Scanner App to read device unique QR code which will add the Tracker to your HERE Tracking Project, or HERE scanner from Google Play Store.



- 2 Enter the Device ID number manually into the ADD new device section in your Tracking Project.

<https://asset.tracking.here.com/>

- 3 Change reporting methods and frequency in the Assets/Edit asset menu as follows:



Standard part list

1 x LL03S GPS / Wi-Fi HERE Advanced Tracker

options:

- USB power charger (US or EU)
- USB-C charging cable 1m (plastic)
- USB-C charging cable 1,5m (knitted)

Pushbutton functions

Press the pushbutton on the side for the indicated seconds.

push 1 time: battery level (green = OK)

push 2 times: start manual ingestion

3 sec push: set Transport Mode (LED will turn red)

10 sec push: reboot to Normal Mode

Installation recommendation

Always Check Battery status

Box / parcel shipment:

Insert the tracker inside the box.

Pallet shipment:

Insert the tracker into an envelope (or box) and tape the envelope (or box) to the pallet.

Car shipment:

Place the tracker inside the trunk.

Troubleshooting

Type / Use

Tracker does not send data:

Check battery level and recharge with USB-C power cable.

Tracker does not send data:

Reboot the tracker to Normal mode as it may be in Flight Mode.

Tracker battery is draining to fast:

Adjust reporting methods in Device setting to lower frequency updates.

Tracker is not visible in Tracker Project:

Verify Device ID and QR, enter the ID manually in your Tracking Project.

Support Needed:

For technical help open a ticket in the HERE Customer Support Portal:

<https://platform.here.com> or contact support@here.com

Warranty

Use of this product is subject to the warranty provided in the
HERE customer agreement.

CE statement

The device is restricted to indoor use when operated in the European Community using frequency in 5150MHz~5350MHz to reduce the potential for interference.

Restriction in BE, BG, CZ, DK, DE, EE, IE, EL, ES, FR, HR, IT, CY, LV, LT, LU, HU, MT, NL, AT, PL, PT, RO, SI, SK, FI, SE, UK.

RF exposure statement

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of $d=20$ cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

FCC statement

RF Exposure Information and Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC rules and RSS-247 of Industry Canada. 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.

NOTE: Unauthorized modifications 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 and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

5G WIFI statement:

The device is restricted to indoor use when operated in 5150MHz~5350MHz to reduce the potential for interference.