LTE CAT M1/NB1 TRACKER

For Asset/Vehicle

MODEL: GPT46

User Manual

<GNSS + GSM/SMS/EGPRS + LTE CAT M1+ LTE NB1>

Long Standby Tracking System

CATLOG

Welcome to use our device，please read this manual carefully to install and operate device exactly. This user manual is for reference only. If some contents and operation steps are inconsistent with those for the actual product, the latter will prevail.

With GPT46 Long Standby GPS Tracker, we can monitor your vehicle or asset by GPS satellite positioning system, GPRS/LTE CAT M1/LTE NB1 communication and Internet, remote location of vehicles or asset can be achieved through a powerful service platform.

Meanwhile, GPT46 also can be a host tracker works Beacons, it can get temperature & humidity data from Beacons by BLE.

GPT46 plays a significant role in logistics and asset protection, helping customers to achieve transparent management, reduce costs, ensure safety, and improve efficiency.

I. Product Features

■ Support GSM/SMS/EGPRS/ LTE CAT M1/ LTE CAT NB1 (iOT network)

■ GNSS: GPS/Beidou/Glonass/Galileo/Qzss etc

■ GNSS/Wi-Fi/LBS triple positioning way, Real time tracking /upload data regularly

■ Built-in temperature sensor, support temperature alarm （Customization）

■ Built-in light sensor, detecting opening door/box behavior. Support Light alarm

■ As a host which connect 24 beacons at most, it can gather temperature & humidity data from Beacon model(like BTT01) by BLE, then upload all data to server regularly.

■ 5500mAh rechargeable lithium Battery

■ Low power alarm, Vibration alarm, GEO-fence alarm

■ Keelin Platform/ Keelin APP/ SMS inquiry

■ Support EELINK2.0, Firmware upgrade by OTA

■ Third party platform integration

Basic Specifications

Work Current	LTE data (400mA); GPRS data (500mA) Idle(4mA);30uA(power off)
GNSS Accuracy	<2M @ Open Sky
GNSS Band	1575MHz
EGPRS Band	850/900/1800/1900MHz
LTE CAT M1 Band	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28
LTE CAT NB1 Band	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28
BLE Max connections	24 Beacons
Hot/warm/cold Start	<3s，<26s，<35s
Battery	5500mAh; 3.3~4.2V; Charge 5V@1A
Dimensions (mm)	120(L) X 69(W) X 19.5(H)
Temperature/Humidity	-20℃~60℃/20%～90%RH
Net Weight	165g

II. Components and Accessories
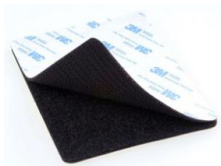
■ Components
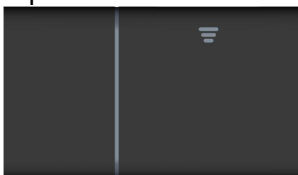
-Top Front-
(Towards sky)
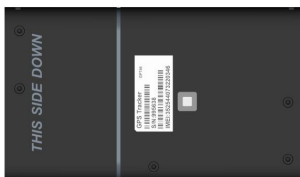
-Bottom -

■ Accessories

3M Velcro (default)

III. SIM Card Installation

Open the back door case, check if device is OK and accessories are intact

Open device cover

Insert SIM Card

Note:

● Please power off device before installing or uninstalling SIM card.

● Open SIM's traffic transmission to send data.

● If the PIN code of SIM card enable, please use your mobile phone to disable the PIN code.

● Please make sure SIM card has sufficient balance.

IV. Test & Installation

4.1 Power on/off

After SIM installation, Turn on/off the power switch, device will power on/off.

4.2 LED Indicators

The **Red LED** flickers fast when device is searching for GSM/Cat M1/Cat NB1 network, it flickers slowly when device has registered network successfully.

The **Blue LED** flickers fast when device is searching for the Positioning satellite signal, it

flickers slowly when device has searched the satellites and can be positioned.

1. **RED LED**(indicates Network working state)

Fast blinking	Searching for GSM/Cat M1/Cat NB1 network
Slow blinking	GSM/Cat M1/Cat NB1 works normally

2. **BLUE LED**(indicates GPS Satellite signal state)

Fast blinking	Searching GPS Satellites
Slow blinking	GPS works normally

4.3 Install Device

Close device door, Stick Velcro to bottom of GPT46 and instill it.

V. Setting & Inquiry

5.1 Web Platform & APP

5.1.1 Web Browser platform
Login the service platform to set or track device, ask your dealer for the WWW address
5.1.2 Smart phone application
Use smart phone APP, ask your dealer to get installation package.

5.2 SMS

You can write a positioning SMS sending to device to inquiry position, device will reply position SMS or map link once it wake up. You also can set administrator number to get remove alarm.

The SMS commands please refer to the Operation Commands.

VI. Device Alarm

6.1 Remove Alarm

Conditions: When Device is removed.
Note: Light Sensor detect any light will trigger this alarm

6.2 Temperature Alarm

Conditions: When Temperature exceed set range
Note: You need to set Temperature range value & time.

6.3 Vibration Alarm

Conditions: When the Vehicle Vibration occurs.
Note: You need to set vibration sensitivity and time, there is an alarm switch.

6.4 Geo-fence Alarm

Conditions: when the vehicle entry / exit / across

the Geo-fence.

Note: You need to set the conditions of crossing fence, fence types and so on.

6.5 Low Battery Alarm

Conditions: When device's battery power falls below a certain value .

Note: Alarm parameters must be set before work in 6.2, 6.3, 6.4, Please refer to the
<**Operation Commands**>

Note: When above alarm occurs, device will send alarm to service platform, meanwhile send a SMS message to the administrator number if the number is set in advance.

VII. Trouble shooting

7.1 Cannot connect platform

Device is never online on the position server when installed at the first time. Please check device:

1）If power cables are wired correctly? Pay attention to not connect them to controlling cables of vehicle.

2）If SIM card is installed correctly? Please refer to the installation instructions.

3）Check status of LED indicators. If device is OK,

red and blue LED will intermittently and slowly flick.

4）Inquiry parameters of device via commands and check replied parameters.

7.2 Offline status

First check if LED indicators are OK, if cannot check them, you can check SIM card following next steps:

1）call SIM card of device and check if you can hear connecting ring.

2）Check if vehicle is in the area where there is no GSM or LTE CAT M1/NB1 signal.

3）Check if one device or all devices are offline in the area . If all devices are offline, you should ask operator If network is OK.

4）Check if SIM card has enough balance.

5）If device becomes offline on the last day of one month, please check data transferring is closed or not.

6）Inquiry parameters of device via commands and check replied parameters.

7.3 No positioned

If the GPS is active, but device cannot be positioned for long time, please check device:

1）If the vehicle is in the place where there is no GPS signal.

2）The upside of device should be installed with face toward the sky.

3）The GSM & LTE CAT M1/NB1 and GPS signal may be weakened if device is installed in the place with electromagnetic wave absorption material(such as metal blocks), special attention should be paid if there is metal thermal insulation layer or heating layer on the front windshield, so that the position accuracy will decline, and the severe ones will not be positioned.

7.4 Position drift

Serious position drift will be found in places where GPS signal is poor. Please drive the vehicle to the open places.

7.5 Commands receiving abnormally

1）Check the commands format.

2）Check if the vehicle is in the places where there is GSM signal.

3）Check if the SIM card is properly installed.

VIII. Warranty Rules

8.1 Special statement

1）Technology change without notice.

2) If the color and appearance are inconsistent with those for the actual product, the latter will prevail.

3）Warranty card is only valid for devices with the following IMEI.

4）Please take care of the warranty card and show it with the original purchase receipts when enjoying the warranty service.

8.2 Warranty period

Since the date of purchase, passive waste host has one year warranty.

8.3 After sales

Any of the following circumstances not covered by the warranty, but may be appropriate to pay repair:

1）More than the warranty period.

2）Unauthorized removal or repair damaged.

3）Damage caused by improper installation, use, maintenance, custody.

4）IMEI label is torn or Obscure.

5）Warranty certificate and product models do not match or warranty certificate be altered.

6）Damage caused by force majeure.