

# MT600 Plus 4G GPS Tracker

## User Manual V1.0



### **Preface**

Congratulations on choosing the Mictrack MT600 Plus 4G Vehicle GPS tracker. This manual shows how to easily program and setup the tracker for best results. Make sure to read this manual carefully before using this product, so as to avoid delays or confusion with it's operation. Please note that specifications and instructions are subject to change without notice to facilitate product improvement. Updates and changes will be integrated into the latest release. The manufacturer assumes no responsibility for any errors or omissions in outdated documents.

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## 1. Overview

MT600 Plus is a multifunctional 4G GPS tracker, fully supporting 4G LTE mobile networks, and also can extend to support Fuel sensor, temperature sensor, door sensor and siren etc. It is commonly used to track and locate individual vehicles, motorbikes or boats, and is a valuable tool for enhanced fleet management.

The MT600 Plus has an excellent track record for stable performance and possesses a wide variety of features.

## 2. Application

- 4G LTE network support
- Real-time tracking
- Vehicle history playback
- SOS report (optional)
- Two way voice(optional)
- Voice monitor(optional)
- ACC detecting
- Geo-Fence report
- External power cut off alarm
- Remote cut off fuel / ignition (optional)
- Vehicle towing alarm
- Over-Speed alarm
- Backup battery low power alarm
- Car battery low power alarm
- Power saving mode/Sleep mode
- Door status report (optional)
- Temperature report (optional)
- Fuel level sensor (optional)
- Siren (optional)

## 3. Specifications

Item	Specifications
Dimension	90(L) x 70(W) x 24(H) mm
Weight	138g
Input Voltage	12-36 VDC
Backup battery	3.7 V 500 mAh
Power consumption	50mA standby current

Item	Specifications
Working temperature	-20°C to 60°C
Humidity	5%~95% non-concretion
Working Hours	10 hours in power-saving mode, 4 hours in normal mode
LED Indicator	4G(blue), GPS(green), Power(red)
Microphone & Speaker	External (optional)
Sensor	3D acceleration/movement sensor/ temperature sensor
Antennas	External 4G & GPS antennas
GPS Sensitivity	-162dBm
Positioning Accuracy	2.5m
<b>4G Frequency bands</b>	<p><b>MT600 Plus E</b>            4G LTE: B1/B3/B7/B8/B20/B28A            3G WCDMA : 900/2100MHz            2G: 900/1800MHz</p> <p><b>MT600 Plus A</b>            4G LTE: B2/B4/B12            3G WCDMA: 850/1700/1900MHz</p> <p><b>MT600 Plus AU</b>            4G LTE: B1/B2/B3/B4/B5/B7/B8/B28/B40            3G WCDMA: 850/900/1900/2100MHz            2G :850/900/1800/1900MMz</p> <p>local frequency band, or contact us for help.</p>
I/O Port	2 digital inputs (12-24V),2 digital output (12-24V)
	1 analog inputs (0-5V) Fuel sensor
	1 Audio
	1 USB port
	1-Wire® temperature sensor

## 4. MT600 Plus and Accessories

### Standard accessories:



Main Unit  
built-in battery

GPS  
antenna

4G  
antenna

Power  
wire(6PIN)

### Optional accessories:



Temperature Sensor

SOS

Microphone

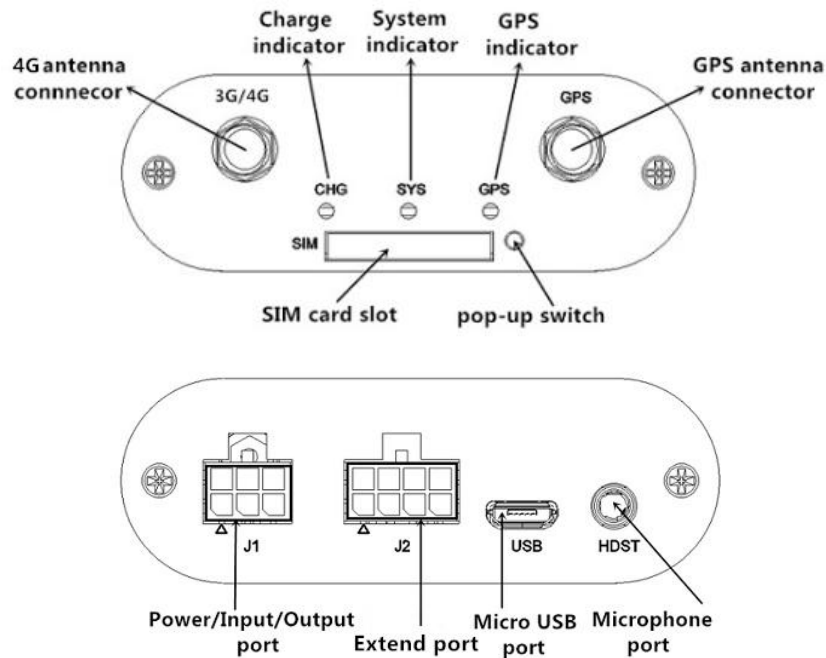
Relay

Speaker

Ultrasonic Fuel Level Sensor

Door Sensor

## 5. Unit Diagram



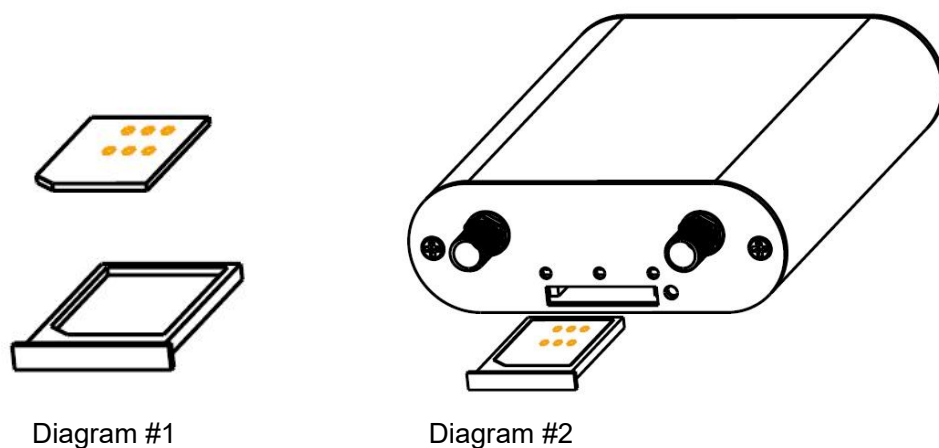
## 6. Installation

### 6.1 SIM Card installation

1. Insert the SIM card into the SIM card plastic tray.
2. Ensure the SIM card has metal contacts facing up (Diagram #1).
3. Gently slide the SIM Tray into the SIM Slot (Diagram #2).

#### Note:

- This device only support **Standard SIM card**
- If you want to take out the SIM card, use the tweezers to press the SIM card pop-up switch, the SIM card slot will pop up.
- Make sure **insert the sim card first** and **then connect the external 12V** power.



## 6.2 LED Indications

### 6.2.1 CHG-Charge indicator (RED)

Status	Description
Constant ON	Currently Charging
OFF	Charging Complete/Battery full (Note: LED will no light if backup battery is not low power.)

### 6.2.2 SYS-System indicator (BLUE)

Status	Description
Constant ON	No SIM Card or Network unavailable
OFF	Vehicle Parked – ACC Power OFF
Quick flash	Normal Working Mode

### 6.2.3 GPS-GPS indicator (GREEN)

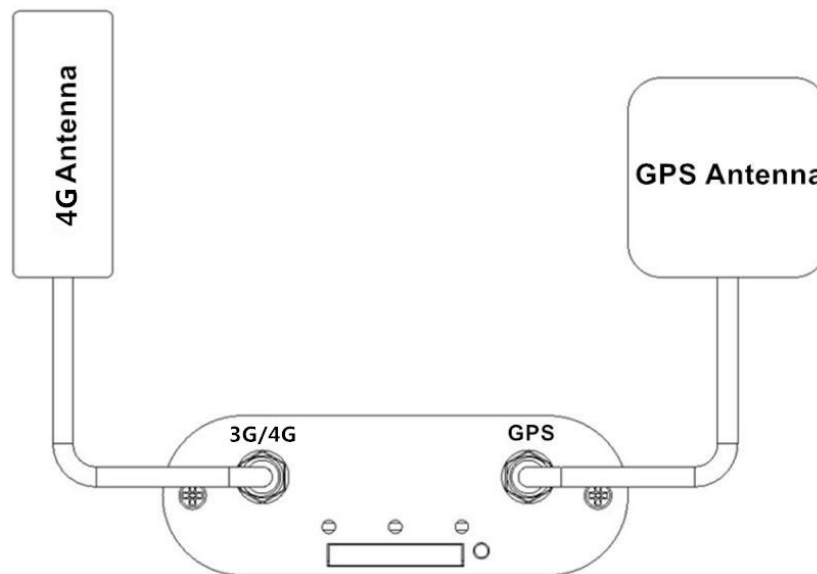
Status	Description
OFF	GPS Unavailable
Quick flash	GPS available

## 6.3 Device Button Instruction

Button	Description
Power ON/OFF	<ul style="list-style-type: none"> <li>● Insert the SIM tray to <b>POWER ON</b> the unit; Take out SIM tray to <b>POWER OFF</b> the unit</li> <li>● Connect the external power to <b>POWER ON</b>; Disconnect the power to <b>POWER OFF</b></li> </ul>
SOS Button	<ul style="list-style-type: none"> <li>● Press and hold the button for 3 seconds, the unit will send position data to authorized phone numbers and Web Tracking Platform.</li> </ul>

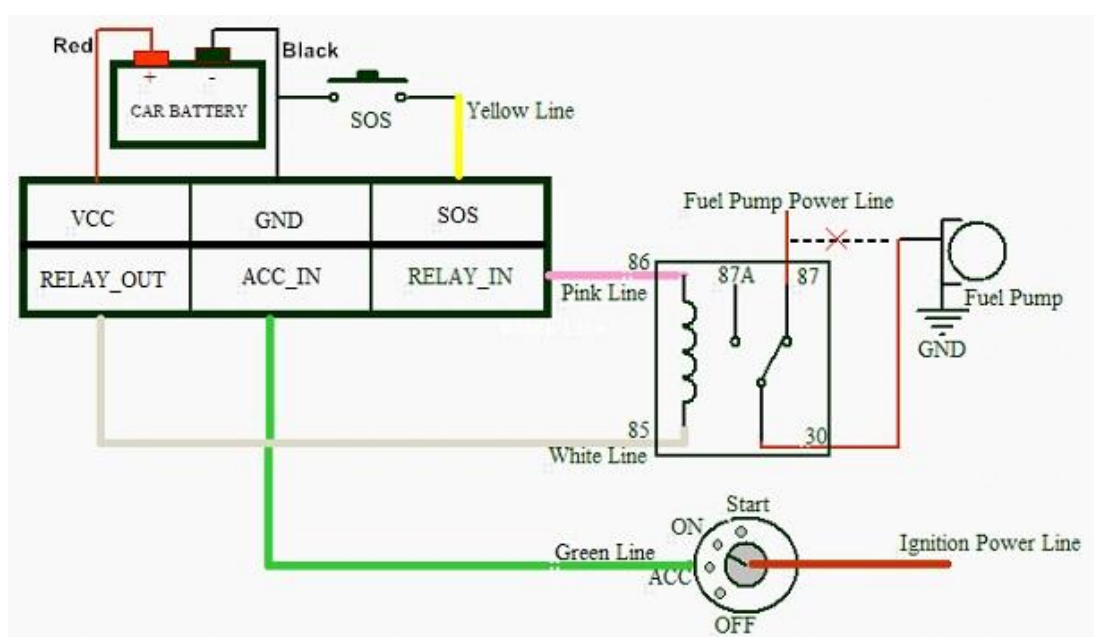


### 6.4 Install 4G & GPS Antenna



- Connect the 4G Antenna firmly to "3G/4G" Socket
  - Connect the GPS Antenna firmly to "GPS" socket
- Note:** Do not install the GPS antenna at a place with metal.

### 6.5 J1 Connection (6PIN wired)



When installing the device, please connect supplied wiring loom as follows: (or contact our sales team for help)

- **Red:** Connect to constant 12V Car Battery(+)
- **Black:** Connect to Earth (Chassis) Car battery(-)
- **Green:** Connect to ACC switched 12V Power
- **Yellow:** Connect to red wire of supplied SOS switch
- **White:** Connect to Relay terminal (85)

- **Pink:** Connect to Relay terminal (86)

**Note:** Relay is optional for remote fuel / ignition shut-off.

### 6.6 Install the SOS button

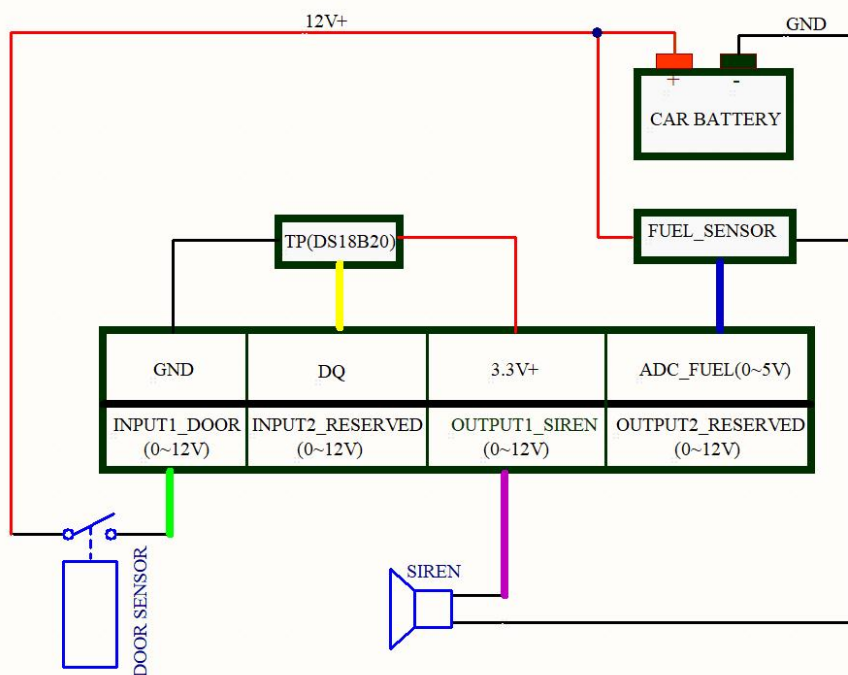
- **Red:** connect to Yellow wire from supplied wiring loom
- **Black:** connect to Earth (Chassis) Car battery(-)

**Note:** installation Video: <http://youtube.com/c/mictrackgps>

### 6.7 J2 Connection (8PIN wired)



<b>1-Black</b>	<b>2-Yellow</b>	<b>3-Red</b>	<b>4-Blue</b>
<b>5-Green</b>	<b>6-Orange</b>	<b>7-Purple</b>	<b>8-White</b>



## 7. Setup and Configuration

**Note:** When sending SMS command to the unit, do NOT use spaces or symbols not listed below. \* and # are valid command parameters.

### 7.1 Setting Authorized Phone Numbers

SMS Command format: mobile number+password+[command parameter]

Note: Command Parameter here is the sequence of the mobile number

i.e. [1=Admin] or [2=SOS call number]

For example: \*13424392330\*0000\*1\*\*

Unit Reply: SET USER NUMBER 1 OK.

**Note:**

- The defaulted password is 0000.
- It can authorize up to 3 phone numbers.

### 7.2 Deleting authorized number

SMS Command format: password+number+[command parameter]

Note: Command Parameter here is the sequence of the mobile number

i.e. [1=Admin] or [2=SOS call number]

For example: \*\*0000\*1\*\*

Unit Reply: DELETE USER NUMBER 1 OK.

### 7.3 Changing the Admin password

SMS Command format: 777+new password+old password

For example: 77712340000

Unit Reply: SET USER PASSWORD OK.

### 7.4 Instant Location Request (used to receive unit location via SMS)

SMS Command format: 666+password

For example: 6660000

When sent, this command will result in a Unit Reply SMS as follows:

ID:865662000409210

Date:05:36:59 05/26/2018

Fix:A State:SMS

[http://maps.google.com/maps?q="+22.63146%2c1+14.03701](http://maps.google.com/maps?q=)

**Note:** This link can to be opened on any Smart Phone to reveal the Google Maps Location of the unit at the time of request

### 7.5 SOS Alarm (optional)

When the SOS button is pressed for 3 seconds, the unit will automatically send it's location to authorized phone number via SMS, and also upload location data to the Web Tracking Platform server along with the status description "SOS"

### 7.6 Geo-fence (Setting of size of Geo-Fence)

SMS Command format: 005+password+R+[Command Parameter]

Note: Command Parameter here is fence diameter in KM [0.1~999.9]

For example: 0050000R1.0

Unit Reply: SET ROUND GEO-FENCE:ON

## 7.7 Remote cut off fuel and ignition (optional)

To remotely Cut-Off fuel or power

SMS Command format: 940+password

For example: 9400000

Unit Reply: SET OILWAY DISCONNECT.

To remotely Resume fuel or power

SMS Command format: 941+password

For example: 9410000

Unit Reply: SET OILWAY RECOVERY CONNECT.

**Note:** The default setting for the Cut-Off feature is OFF

## 7.8 External power cut off alarm

If the external power to the unit is disconnected, the unit will call the authorized phone numbers, and then send location data to the authorized phone number and upload location data to the Web Tracking Platform server along with the status description “DEF”

## 7.9 Towing Alarm

If the vehicle was be moved or towed when ACC is turned OFF, it will SMS location data to the authorized phone number, and upload location data to the Web Tracking Platform server along with the status description “TOWED”

## 7.10 Low Battery Alarm (backup battery)

When the unit's internal backup battery is low, it will SMS the authorized phone number, and upload location data to the Web Tracking Platform server along with the status description “BLP”

## 7.11 Low Battery Alarm (Vehicle Battery)

When the vehicle battery is low, it will SMS the authorized phone number, and upload location data to the Web Tracking Platform server along with the status description “CLP”

## 7.12 Door Siren Alarm (optional)

### 7.12.1 Enable Door Siren Alarm

SMS Command format : 130+password

For example: 1300000

Unit Reply: SET DOOR SIREN ON

### 7.12.2 Disable Door Siren Alarm

SMS Command format : 130+password

For example: 1310000

Unit Reply: SET DOOR SIREN OFF

## 7.13 Over-Speed Alarm

### 7.13.1 Setup Over-speed value

To enable the Over-Speed Alarm

SMS Command format : #122#password#speed value##

Example: #122#0000#100##

Unit Reply: SET SPEED LIMIT:ON

To disable the Over-Speed Alarm

SMS Command format: #122#0000#0##

Note: Command Parameter here is [0=OFF]

Unit Reply: SET SPEED LIMIT:OFF.

**Note:** Speed is in KM/H, Maximum setting = [999].

### 7.13.2 Over-speed siren alarm

Enable Over-speed siren alarm : 132+password

For example: 1320000

Unit Reply: SET SPEED SIREN ON

Disable over-speed siren alarm : 133+password

For example: 1330000

Unit Reply: SET SPEED SIREN OFF

## 7.14 External output (Reserved)

Enable External output : 960+password

For example: 9600000

Unit Reply: SET OUTPUT2 ON

Disable External output : 961+password

For example: 9610000

Unit Reply: SET OUTPUT2 OFF

## 7.15 Set Time Zone

SMS Command format: 896+password+ [+/-]HH:MM

Note: Command Parameter here is [Plus or Minus GMT]&[Hours/Minutes]

For example: 8960000+10:00

Reply: SET TIME ZONE:+08:00

**Note:** The default is Greenwich Time (UTC). [i.e. Melbourne Australia = +10:00]

## 7.16 Set APN (Access Point Name)

SMS Command format 1: #803# password#APN##

For example : #803#0000#telstra.internet##

SMS Command format 2: #803#password#APN#APN user name# APN password##

For example: #803#0000#CMNET#INTERNET#INTERNET##

Reply: SET GPRS APN OK.

**Note:** please contact your SIM Card provider to get the correct APN details

## 7.17 Set Tracking Server IP and PORT

SMS Command format: #804#password#IP#port##

Example: #804#0000#e.trackits.com#7700##

Reply: SET SERVER IP AND PORT OK.

## 7.18 Set Upload Interval Time

This sets how often [in seconds] the unit sends location data back to the Tracking Platform whilst the ACC is switched on. This will affect accuracy and data usage.

### 7.18.1 ACC ON (Upload status is AUTO)

SMS Command format: #805#password#interval time#[command parameter]##

Note: Command Parameter here [1=ON] & [0=OFF]

For example: #805#0000#10#1##

Unit Reply: SET GPS PERIODIC UPLOAD ON.

**Note:** interval time maximum [10,65535]seconds

Unit Reply: SET GPS PERIODIC UPLOAD OFF.

### 7.18.2 Vehicle Towed Alarm (vehicle moves whilst ACC is turned OFF)

SMS Command format: #809#password#interval time#[command parameter]##

Note: Command Parameter here [1=ON] & [0=OFF]

For example: #809#0000#10#1##

Unit Reply: SET GPS TOWED UPLOAD ON.

**Note:** interval time maximum [10,65535]seconds

Unit Reply: SET GPS TOWED UPLOAD OFF.

### 7.18.3 ACC OFF & Vehicle Stationary (Upload status is AUTOLOW)

SMS Command format: #807#password#interval time##

For example: #807#0000#2##

Unit Reply: SET GPS POWER SAVING UPLOAD ON.

**Note:** interval time maximum [2,1440] minutes [If interval time = 0, it will stop upload]

Unit Reply: SET GPS POWER SAVING UPLOAD OFF.

## 7.19 SMS Response ON/OFF

To turn SMS messages OFF

SMS Command format: 160+password

For example: 1600000

Unit Reply: SET SEND SMS:OFF.

To turn SMS messages back ON

SMS Command format: 161+password

For example: 1610000

Unit Reply: SET SEND SMS:ON.

**Note:** if you want to disable the SMS alerts, send **1600000**

## 7.20 Unit Phone Calling Control (useful for SIM Card data cost saving)

To turn OFF unit Calling Alerts

SMS Command format: 150+password

For example: 1500000

Unit Reply: SET VOICE CALL:OFF

To turn ON unit Calling Alerts

SMS Command format: 151+password

For example: 1510000

Unit Reply: SET VOICE CALL: ON

**Note:** if you want to disable the call alerts, send **1500000**

## 8. App & PC Tracking platform

### 8.1 Subscribe the server plan

- Contact your sales or distributor to active your device
- Subscribe the server from our official shop:

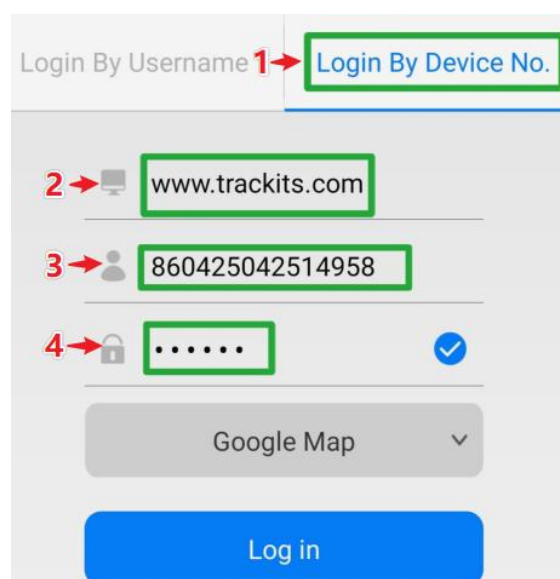
<https://shop.mictrack.com/product/gps-tracking-platform-service/>

### 8.2 App install & Login

- Search “**Yi tracker**” in Google Play or iOS store(or scan the following QR code) to download the Mobile APP(not Yi tracker2);

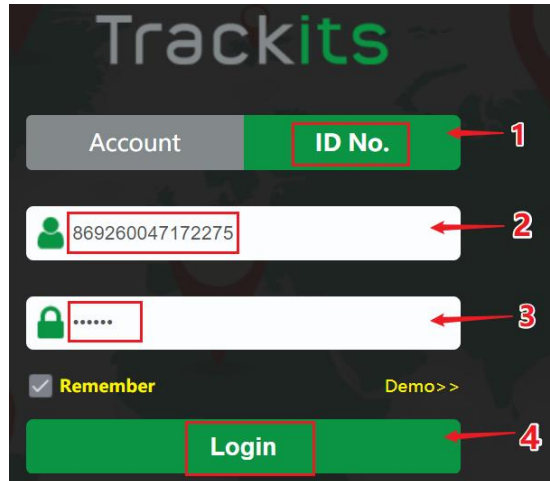


- Choose the “Login by Device No.”
- Input server [www.trackits.com](http://www.trackits.com)
- Input **your device's ID number** and password(default is 123456)

A screenshot of a mobile application login screen. At the top, there are two tabs: "Login By Username" and "Login By Device No.", with a red arrow pointing to the second tab. Below the tabs are three input fields: the first contains "www.trackits.com", the second contains "860425042514958", and the third contains six dots. Each input field has a red arrow pointing to it with a number (1, 2, 3, 4) indicating the step. To the right of the password field is a blue checkmark icon. Below the input fields is a "Google Map" dropdown menu and a blue "Log in" button.

### 8.3 PC login

- Web: [www.trackits.com](http://www.trackits.com)
- Choose "ID No."
- Input **your device's ID number** and password(default is 123456)



### 9. Troubleshooting

Issues	Caused	Solutions
Send SMS to the device but no reply	1>Data only SIM card and don't supported SMS service, 2>New SIM card have not active 3>Card balance is not enough	Please check the SIM card status and make sure it can work.
	Command is wrong	Please check the command format again
	Password is wrong	Please check the password again (default is 0000)
	4G antenna install wrong	Please check the 4G antenna if install correct.
Can not get the location	GPS antenna install wrong	Please check again
Can not power on	Backup battery is low voltage	Please try to connect 12V
Charge Led no light	Backup battery voltage is over 3.7V.	The device will auto-charge once detect to low voltage and then LED light, or LED will not



		night.
Device Can not show on server	Device ID is wrong	Please check the ID
	Device have not active on server	Please contact your sales to active your device
	The IP and port setup wrong	Check the IP and port again
	APN error	Check the APN again

Any questions please do not hesitate to contact us:



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