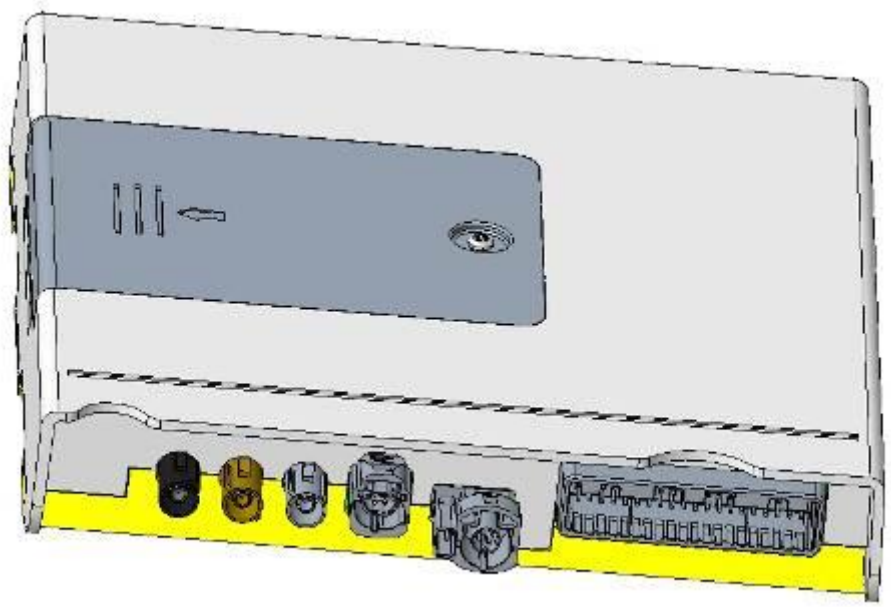
# Telematics Module User Manual

（Version 1.0）



Please carefully read the User Manual before using to ensure correct and efficient operation. Product appearance, color and accessories are subject to change without prior notice！

1. Guide

**1.1.** Product Features.

The product features include networks communication， remote control, vehicle remote diagnostics, vehicle data monitoring, remote destination setting, GNSS location information receiving, remote refresh and other functions. The data transmission between the system and the background depends on the carrier network.


**1.2.** List of Features.

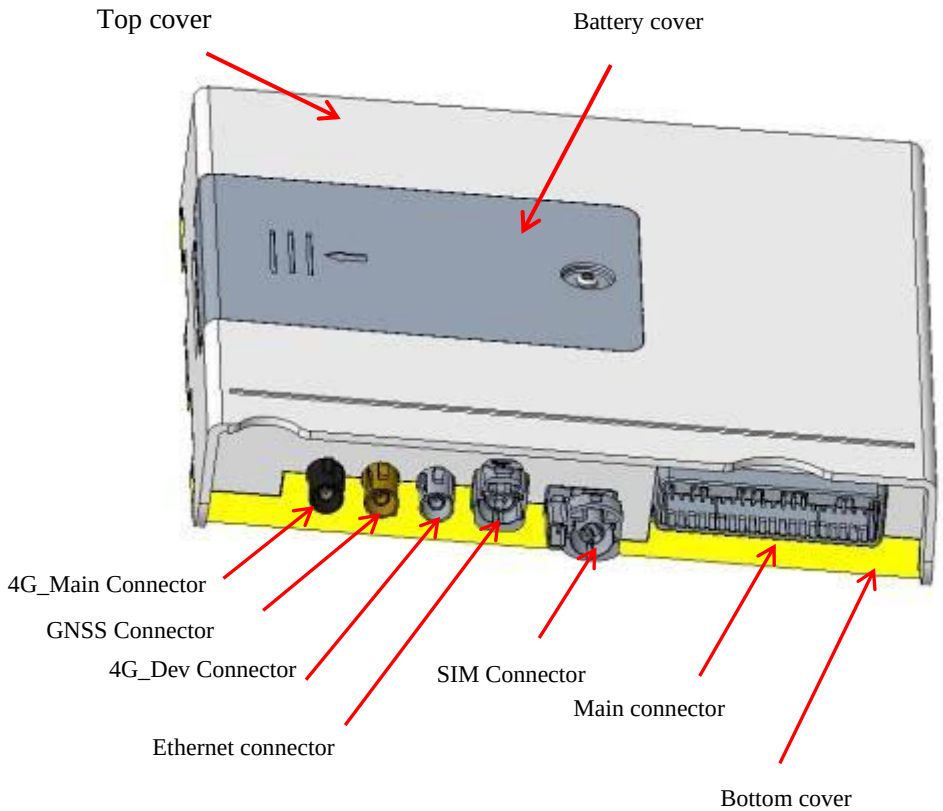
| No. | Features | Description of Features |
|---|---|---|
| 1 | 2/3/4G | Support for internet access |
| 3 | GNSS | Support for GPS satellite positioning with synchronization for GLONASS, BEIDOU, Galileo, QZSS for assisted positioning. |
| 4 | Remote vehicle control | Remote vehicle diagnosis, vehicle data monitoring, remote destination setting, remote refresh. |
| 5 | Upgrade | OTA (Over-The-Air) firmware upgrade |

### 1.3. Parameters

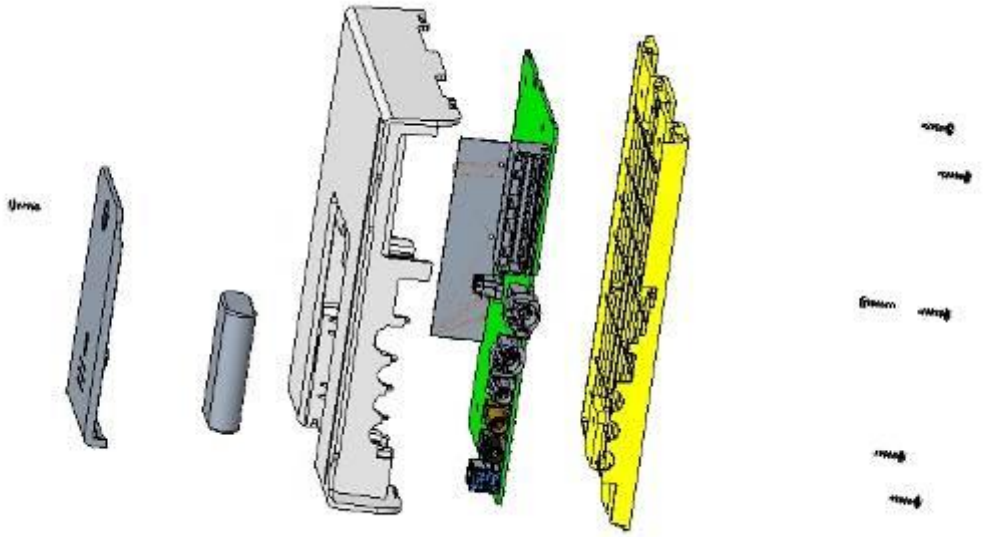
| Function module | Parameters | Performance |
|---|---|---|
| GNSS | Tracking sensitivity | -150dBm |
| | Acquisition sensitivity | -150dBm |
| | TTFF | <35S(Cold start）/<3s(Warm start） |
| | Positioning accuracy | When the signal is good <10m |
| | Frequency Band | 1559-1610MHz (GPS/GLONASS/BDS/SBAS/Galileo) |
| LTE FDD | Frequency Band | B1/B3/B5/B7/B8/B20/B28 |
| LTE TDD | Frequency Band | B38/B40 |
| WCDMA | Frequency Band | B1/B5/B8 |
| GSM/EDGE | Frequency Band | 900/1800 MHz |
| Rated Voltage | DC 9-16V | |
| Rated Current | 0.5A | |
| Size | 160*160*36mm | |
| Weight | 563±45g | |
| Operating temperature range | -40℃ ~+85℃ | |

## 2. Product introduction

### 2.1. Exterior description



## 3. Installation instructions



a. Align the outer contour of the bottom cover with the inner contour of the top cover, gently press the bottom cover in place, and the clips will snap the top and bottom covers together.

b. Secure the top cover, PCBA, bottom cover by fastening screws.

c. Align the battery cover clips with the slots on the top cover, gently push in and secure with screws.

## 4. Telematics platform application operation

Logging in to the location service platform or mobile app designated by the distributor allows you to query and configure parameters of related Telematicss, such as setting work modes, account passwords, alarm settings, SOS numbers, location queries, remote listening, etc.

## 5. Troubleshooting

If the following malfunctions occur during operation of the Telematics, please refer to the troubleshooting solutions below. If you still cannot solve the problem, please contact your sales or service provider!

| Frequently Asked Questions | Cause of the problem | Solution |
|---|---|---|
| Bad signal reception | When using a Telematics in an area with poor reception, such as near tall buildings or underground, radio waves cannot be effectively transmitted. | Using the Telematics in an area with good signal strength |
| Unable to power on | No SIM card inserted | Insert SIM card |
| | Low battery | Insert the device into the vehicle's OBD port to power on the car |
| Unable to listen | SOS number not configured | Set up SOS number |
| | Incoming caller ID not activated due to inactive SIM card | Activate caller ID feature for the SIM card |
| Unable to connect to the network | SIM card not inserted properly | Check the SIM card |
| | The metal surface of the SIM card is dirty | Wipe clean with a dry cloth |
| | Invalid SIM card | Contact your network service provider |
| | Out of service area | Please move to an area covered by your network service provider |
| | Weak signal | Please move to a location with strong signal and try again. |
| Unable to retrieve location information | Data function not activated due to inactive SIM card | Please contact your network service provider to activate data plan functionality |
| | "No data found, please try again" repeatedly | Please contact your dealer |
| No diagnostic data | The vehicle does not belong to the testable mode | Please confirm with the dealer before purchasing that it is supported |
| | Data limit exceeded | Top up and add data |

## 6. Warning

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.

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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.