

LTE Tracker

# Prime PT200V User Manual

Revision: 1.00

|                            |                                 |
|----------------------------|---------------------------------|
| <b>Document Title</b>      | <i>Prime PT200V User manual</i> |
| <b>Version</b>             | <i>1.00</i>                     |
| <b>Finale Date</b>         | <i>2019-12-04</i>               |
| <b>Status</b>              | <i>Released</i>                 |
| <b>Document Control ID</b> | <i>TRACKER Prime PT200V</i>     |

## Contents

|                                             |   |
|---------------------------------------------|---|
| 1 Introduction.....                         | 3 |
| 2 Product Overview.....                     | 3 |
| 2.1 Appearance.....                         | 3 |
| 2.2 Buttons/4PIN Interface Description..... | 3 |
| 2.3 LED Description.....                    | 4 |
| 3 Getting Started.....                      | 5 |
| 3.1 Parts List.....                         | 5 |
| 3.2 Battery Charging.....                   | 5 |
| 3.3 Prime PT200V Charging Dock.....         | 5 |
| 3.4 Power on/Power off.....                 | 6 |
| 4 Frequency.....                            | 7 |
| 5 Trouble shooting and Safety info.....     | 7 |
| 5.1 Trouble shooting.....                   | 7 |
| 5.2 Safety info.....                        | 7 |

# 1 Introduction

Prime PT200V is a powerful GPS locator which is designed for vehicle, human, pets and assets tracking. It works on LTE B4/B13 with superior receiving sensitivity. Its location can be real time or schedule tracked by backend server or specified terminals. Based on the embedded wireless tracking protocol, Prime PT200V can communicate with the backend server through LTE network, and transfer reports of emergency, Geo-fencing, device status and scheduled GPS position etc... Service provider is easy to setup their tracking platform based on the functional wireless tracking protocol.

The WIFI function will be activated and report the MAC addresses once the device is in alerting state. GPS will be activated and report location information and the back-end server will be notified with location data once the device is in alerting state. The BLE function will be activated and scan the third-party BLE data or Beacon broadcast by custom setting or protocol.

## 2 Product Overview

### 2.1 Appearance



Figure 1-1

### 2.2 Buttons/4PIN Interface Description

| Button /12PIN Interface Description |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| KEY/interface                       | Description                                                               |
| <b>Power Key</b>                    | Power on Prime PT200V<br>Power off Prime PT200V (If power key is enabled) |
| <b>Function Key</b>                 | SOS mode                                                                  |

|                        |                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4 PIN interface</b> | Connected to a charging dock can power on Prime PT200V<br>Backend server developer or administrator can use the debug dock to configure Prime PT200V (by engineer not by end user). |
| <b>TEST Key</b>        | Long press to make a call                                                                                                                                                           |

## 2.3 LED Description



Figure 1-2

There are 3 LED lights in Prime PT200V device, the description as following.

| Light     | Event                                          | State                 |
|-----------|------------------------------------------------|-----------------------|
| Power LED | Power on                                       | Flash every 2 seconds |
|           | Power off                                      | Dark                  |
|           | Power key was pressed and prepare to power on  | Solid                 |
|           | Power on and normal                            | Dark                  |
|           | Fully charged                                  | Solid                 |
|           | In charging                                    | Slow flash            |
|           | Power key was pressed and prepare to power off | Solid                 |
|           | Power key was pressed and prepare to power on  | Solid                 |
|           | GPS positioning successful                     | Solid                 |
| LED       | GPS failed                                     | Dark                  |
|           | Power key was pressed and prepare to           | Solid                 |

|  |           |      |
|--|-----------|------|
|  | power on  |      |
|  | Power off | Dark |

## 3 Getting Started

### 3.1 Parts List

| Name                          | Picture                                                                            | Remark                                       |
|-------------------------------|------------------------------------------------------------------------------------|----------------------------------------------|
| Prime PT200V<br>Locator       |   | The LTE/GPS locator.                         |
| Prime PT200V<br>charging Dock |  | It used to be charging for the Prime PT200V. |

### 3.2 Battery Charging

*The following items are suggestion for battery charge, please pay more attention.*

- ◆ During the charging process, the Power LED light will slow flash. When the battery is fully charged, the Power LED light will be Ever-dark.
- ◆ You can charge the battery using charging dock which connects Prime PT200V device with the Adapter.
- ◆ Charging will last about 5 hours.

***Note: If the Prime PT200V device is firstly used, please make sure the battery is fully charged, which will make the life of battery much longer.***

### 3.3 Prime PT200V Charging Dock

Prime PT200V Charging Dock is a base with an AC Adapter.

The charging dock is used for device charging , which can be used for charging at the any time ( by end user)..



Figure 2-1

### 3.4 Power on/Power off



Figure 2-2

Power on:

- ◆ Press the Power key at least 3 seconds and release it to power on Prime PT200V device. Note that, the Power LED light will light for a moment and then turn off.

Power off:

- ◆ Press the power key about 3 seconds; Power LED light will light for a moment and then turn off, which indicates that Prime PT200V device has been powered off.

Note: the user can not power off Prime PT200V if the power key is disabled by protocol.

## 4 Frequency

LTE: Band4、Band13

GPS:1575.42MHz

WIFI/BT:2.4GHz

## 5 Trouble shooting and Safety info

### 5.1 Trouble shooting

| Trouble                                                             | Possible Reason                                                      | Solution                                                                                                            |
|---------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Messages can't be reported to the backend server by Mobile network. | APN is wrong. Some APN can not visit the internet directly.          | Ask the network operator for the right APN.                                                                         |
|                                                                     | The IP address or port of the backend server is wrong.               | Make sure the IP address for the backend server is an identified address in the internet.                           |
| Unable to power off Prime PT200V.                                   | The function of power key was disabled by AT+GTFKS.                  | Enable the function of power key by AT+GTFKS.                                                                       |
| Battery can not be charged                                          | The battery has not been used for too long time and has been locked. | Using a external power source with 3.6V to 4.2V DC power supply to active the battery or apply for after sale help. |
| Prime PT200V can't fix GPS successfully.                            | The GPS signal is weak.                                              | Please move Prime PT200V to a place with open sky.                                                                  |
|                                                                     |                                                                      | It is better to let the top surface face to the sky. (The same surface with indication LED)                         |

### 5.2 Safety info

*The following items are suggestion for safety use, please pay more attention.*

- ◆ Please do not disassemble the device by yourself.
- ◆ Please do not put the device on the overheating or too humid place, avoid exposure to direct sunlight. Too high temperature will damage the device or even cause the battery explosion.

- ◆ Please do not use Prime PT200V on the airplane or near medical equipment.

## **FCC Caution.**

### **§ 15.19 Labelling requirements.**

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

### **§ 15.21 Information to user.**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **§ 15.105 Information to the user.**

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 Tracker meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

The PT200LSV has been tested for body Specific Absorption Rate (SAR) compliance. The FCC/IC has established detailed SAR requirements and has established

that these requirements. This model meets the applicable government requirements for

exposure to radio frequency waves. The highest reported SAR level for usage near the body (5mm) is 0.806 W/kg.