Tracker

PT201B User Manual

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Contents

1 Introduction

PT201B is a powerful GPS locator which is designed for vehicle, human, pets and assets tracking. It works on LTE B2/B4/B12/B14/B66 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, PT201B 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

Button /12PIN Interface Description	
KEY/interface	Description
Power Key	Power on PT201B Power off PT201B (If power key is enabled)
Function Key	SOS mode

Reset Key	Click the key will turn off internal VBAT when OS is abnormal, and then press Power Key to restart PT201B.
TEST Key	Long press to make a call

2.3 LED Description

Figure 1-2

There are three LED lights in PT201B device, the description as following.

Light	Event	State
LTE LED	Power on	Flash every 2 seconds
	Power off	Dark
	Power key was pressed and prepare to power on	Solid
Power LED	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 LED	GPS positioning successful	Solid
	GPS failed	Dark
	Power key was pressed and prepare to power on	Solid
	Power off	Dark

3 Getting Started

3.1 Parts List

Name	Picture	Remark
PT201B Locater		The LTE/GPS locator.
PT201B charger		It used to be charging for the PT201B.

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 PT201B device with the Adapter.
- Charging will last about 5 hours.

Note: If the PT201B device is firstly used, please make sure the battery is fully charged, which will make the life of battery much longer.

3.3 PT201B Charger

PT201B is Charging with an AC Adapter.

The charger 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 PT201B 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 PT201B device has been powered off.

Note: the user can not power off PT201B if the power key is disabled by protocol.

4 Frequency

LTE: B2/B4/B12/B14/B66

GPS:1575.42MHz

Ble:2402-2480Mhz (Receiving only)

WIFI: 2412-2462MHz (Receiving only)

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 PT201B.	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.
PT201B can't fix GPS successfully.	The GPS signal is weak.	Please move PT201B 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 PT201B on the airplane or near medical equipment.

§ 15.19 Labelling requirements.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

§ 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.

RF Exposure Information (SAR) :

The SAR limit of USA (FCC)is 1.6W/Kg averaged over one gram of tissue for body and 4 W/kg averaged over ten gram of tissue for limb . Product Type: Tracker ,(FCC ID: ZKQ-AHALO) has also been tested against this SAR limit. The device was test for typical body-worn operations and head face up operations keep the Tracker at least 5mm from the face.when worn on body must be correct back clip for this product, Use of non-approved accessories may result in exposure levels which exceed the uncontrolled envirnomental RF exposure limits. The highest reported SAR level for usage near the body (5mm) is 1.396 W/kg, The highest reported SAR level for Limb (0mm) is 1.277 W/kg.

ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The SAR limit of ISED is 1.6W/Kg averaged over one gram of tissue for body and 4 W/kg averaged over ten gram of tissue for limb . Product Type: Tracker ,(IC: 8414B-AHALO) has also been tested against this SAR limit. The device was test for typical body-worn operations and head face up operations keep the Tracker at least 5mm from the face.when worn on body must be correct back clip for this product, Use of non-approved accessories may result in exposure levels which exceed the uncontrolled envirnomental RF exposure limits. The highest reported SAR level for usage near the body (5mm) is 1.396 W/kg, The highest reported SAR level for Limb (0mm) is 1.277 W/kg.

Le das limite de l'ed est de 1,6 W/Kg en moyenne sur un gramme de tissu pour le corps et de 4 W/Kg en moyenne sur dix grammes de tissu pour le membre. Le Type de produit: Tracker,(IC: 8414B-AHALO) a également été testé contre cette limite de das. Le dispositif a été testé pour des opérations typiques portant sur le corps et les opérations tête haute gardent le traqueur à au moins 5mm de la taille. Une fois porté sur le corps doit être clip arrière correct pour ce produit, l'utilisation d'accessoires non approuvés peut entraîner des niveaux d'exposition qui dépassent les limites d'exposition aux RF d'environnement non contrôlé. Le das le plus élevé signalé pour une utilisation près du corps (5mm) est de 1,396w /kg, le das le plus élevé signalé pour un membre (0mm) est de 1,277w /kg.
