Tracker

Pod1
User Manual

Revision: 1.00

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Contents

1 Introduction

Pod1 use primary batteries. it is a powerful GPS locator which is designed for vehicle, and assets tracking . 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, Pod1 can communicate with the backend server through LTE Cat-M 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. The BLE function will be activated and scan the third-party BLE data or Beacon broadcast by custom setting or protocol.

RF 433MHz is used as a supervised short range RF communication link between the unit and the Base Station to determine if they are no longer in range with each other.

2 Product Overview

2.1 Appearance

Figure 2-1

2.2 LED Description

Figure 2-2

There is one tricolour LED lights in Pod1 device, the description as following.

Light	Event	State
LED show blue	GPS fixed	Solid
LED show red	low power	Solid
LED show green	standby mode	Slow Flash
	During Call	Solid

3 Getting Started

3.1 Parts List

Name	Picture	Remark
Pod1		The LTE/GPS locator.

3.2 How GPS position Fix

Your device has an unobstructed view of the sky,lying face up,so it can obtain the initial GPS Fix

Figure 3-1

3.3 Disassemble Introduction

1.Dismantling machine tools：

Tweezers、Cross Screwdriver

2.Machine appearance：

Figure 3-2

3.Unscrew

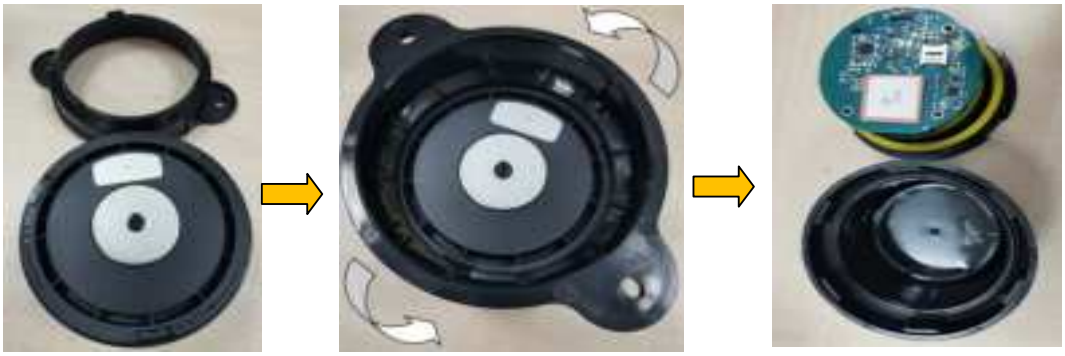

Figure 3-3

3.4 Insert SIM Card

Figure 3-4

3.5 Device Power on

Figure 3-5

3.6 Install

Figure 3-6

4 Frequency

LTE CatM: B2(TX 1850-1910MHz,RX 1930-1990MHz)
LTE CatM: B4(TX 1710-1755MHz,RX 2110-2155MHz)
LTE CatM: B5(TX 824-849MHz,RX 869-894MHz)
LTE CatM: B12(TX 699-716MHz,RX 729-746MHz)
LTE CatM: B13(TX 777-787MHz,RX746-756MHz)
LTE CatM: B25(TX 1850-1915MHz,RX1930-1995MHz)
LTE CatM: B26(TX814-849MHz,RX859-894MHz)
LTE CatM: B66(TX1710-1780MHz,RX2110-2200MHz)
LTE CatM: B85(TX698-716MHz,RX728-746MHz)
LTE NB-IoT: B2(TX 1850-1910MHz,RX 1930-1990MHz)
LTE NB-IoT: B4(TX 1710-1755MHz,RX 2110-2155MHz)
LTE NB-IoT: B5(TX 824-849MHz,RX 869-894MHz)
LTE NB-IoT: B12(TX 699-716MHz,RX 729-746MHz)
LTE NB-IoT: B13(TX 777-787MHz,RX746-756MHz)
LTE NB-IoT: B25(TX 1850-1915MHz,RX1930-1995MHz)
LTE NB-IoT: B26(TX814-849MHz,RX859-894MHz)
LTE NB-IoT: B66(TX1710-1780MHz,RX2110-2200MHz)
LTE NB-IoT: B71(TX663-698MHz,RX617-652MHz)
LTE NB-IoT: B85(TX698-716MHz,RX728-746MHz) GPS:
1575.42MHz
WIFI: 2412~2462 MHz
BT:2402-2480 MHz
433:433MHz

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 Pod1.	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 3.65V DC power supply to active the battery or apply for after sale help.
Pod1 can't fix GPS successfully.	The GPS signal is weak.	Please move Pod1 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 Pod1 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 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.

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

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.

ISED RF exposure statement:

This equipment complies with ISED 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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le rayonnement de la classe b repecte ISED fixaient un environnement non contrôlés.Installation et mise en œuvre de ce matériel devrait avec échangeur distance minimale entre 20 cm ton corps.Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d’autres.