

Tracker

Prime ME

User Manual

Revision: 1.00

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1 Introduction

Prime-ME is a powerful GPS locator which is designed for vehicle, pets and assets tracking. With superior receiving sensitivity, fast TTFF and GSM frequencies 850/900/1800/1900, and WiFi hotspot aiding position function. Its location can be real time or schedule tracked by backend server or specified terminals. Based on the embedded wireless tracking protocol, Prime-ME can communicate with the backend server through GPRS/GSM network, and transfer reports of device status and scheduled GPS position, WiFi hotspot aiding position etc... Service provider is easy to setup their tracking platform based on the functional wireless tracking protocol.

2 Product Overview

2.1 Appearance



Figure 1-1

2.2 Buttons/Micro USB Interface Description

Button /Micro USB Interface Description	
KEY/interface	Description
Power Key	Power on Prime-ME Power off Prime-ME (If SIM card is not inserted)

Micro USB interface	Connect a 5V DC adapter can power on Prime-ME and charge the internal battery Backend server developer or administrator can use the data cable to configure Prime-ME
Reset Key	Click the key will turn off internal VBAT when OS is abnormal, and then press Power Key to restart Prime-ME.

2.3 LED Description

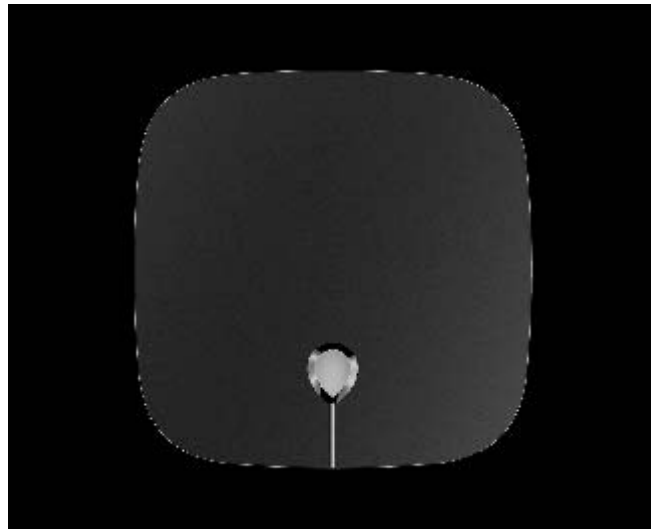





Figure 1-2

There are three LED lights in Prime-ME device, the description as following.

Light	Event	State
BLUE LED	GPS fixed	Fast flash
	GPS has been turned off	Dark
	Device standby	Slow flash per 30 seconds
RED LED	Power on and normal	Dark
	Power on and low battery voltage	Slow flash
	Power off process	solid
GREEN LED	Power on and normal	Dark
	Fully charged	Solid
	In charging	Slow flash

3 Getting Started

3.1 Parts List

Name	Picture	Remark
Prime-ME Locater		The GSM/GPRS/GPS locator.
AC-DC Power Adapter		It is used to charge the internal battery of Prime-ME.
Prime-ME Data and charger Cable		It is the USB data cable which can be used for firmware upgrading and configuration. It also includes the charger interface on the Prime-ME.

3.2 Battery Charging

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

- ◆ Please connect AC-DC power adapter with Prime-ME device.
- ◆ Insert the AC-DC power adapter into the power socket.
- ◆ During the charging process, the GREEN LED light will flash slowly. When the battery is fully charged, the GREEN LED light will be ever-light.
- ◆ You can also charge the battery using USB cable which connects Prime-ME device with the PC.
- ◆ Charging will last about 2 hours.

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

3.3 Prime-ME Data Cable

Prime-ME Data Cable is a cable with a Micro USB connector.

The USB data cable is used for data download, which will be used for firmware update or configuration and can be used for charging at the same time.



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-ME device.
Note that, the three LED lights will flash in turn.

Power off (if SIM card is not inserted):

- ◆ Press the power key about 3 seconds; RED LED light will be solid and then turn off, which indicates that Prime-ME device has been powered off.

Note: the user can not power off Prime-ME by power key if SIM card is inserted.

4 Trouble shooting and Safety info

4.1 Trouble shooting

Trouble	Possible Reason	Solution
Messages can't be reported to the backend server by Mobile network.	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.
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-ME can't fix GPS successfully.	The GPS signal is weak.	Please move Prime-ME to a place with open sky.
		It is better to let the top surface face to the sky. (The same surface with indication LED)

4.2 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-ME on the airplane or near medical equipment.

FCC Notice:

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.

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

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. (2) This device must accept any interference received, including interference that may cause undesired operation.

RF Radiation Exposure Statement:

1. This Transmitter has been demonstrated co-location compliance requirements as documented in this filing.
2. This equipment compliance with FCC RF radiation exposure limits set forth for an uncontrolled environment for body-worn configuration, it must be used for the distance minimum 5mm from the body.
3. The maximum summation of SAR was 1.33W/Kg(1g) for Body.

WARNINGS:

BATTERY AND CHARGERS:

Unplug the charger from the electrical plug and the device when not in use.

Use the AC power supply defined in the specifications of the charger. An improper power voltage may cause a fire or a malfunction of the charger.

If the power cable is damaged (for example, the cord is exposed or broken), or the plug loosens, stop using the cable at once. Otherwise, it may lead to an electric shock, a short circuit of the charger, or a fire.

Adapter shall be installed near the equipment and shall be easily accessible.

CAUTION:

**RISK OF EXPLOSION IF AN INCORRECT TYPE OF BATTERY IS USED.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**

DO NOT disassemble or replace the battery. If you suspect there is something wrong with the battery, please carry the unit to the service centre for help.

The battery should not be disposed together with other waste. The battery has to be disposed at an authorized place for recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmental friendly and healthy way.

Keep the device away from source of heat and fire, such as a heater, microwave oven, stove, water heater, radiator, or candle.

Stop using your device or applications for a while if the device is overheated. If skin is exposed to an overheated device for an extended period, low temperature burn symptoms, such as red spots and darker pigmentation, may occur.

Do not allow children or pets to bite or suck the device or accessories. Doing so may result in damage or explosion.

Observe local laws and regulations, and respect the privacy and legal rights of others.

EU Regulatory Conformance

Hereby, we declare that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

CE 0681

Certification Information (SAR)

This device meets guidelines for exposure to radio waves. Your device is a low-power radio transmitter and receiver. As recommended by international guidelines, the device is designed not to exceed the limits for exposure to radio waves. These guidelines were developed by the independent scientific organization International Commission on Non-Ionizing Radiation Protection (ICNIRP) and include safety measures designed to ensure safety for all users, regardless of age and health.

The Specific Absorption Rate (SAR) is the unit of measurement for the amount of radio frequency energy absorbed by the body when using a device. The SAR value is determined at the highest certified power level in laboratory conditions, but the actual SAR level of the device when being operated can be well below the value. This is because the device is designed to use the minimum power required to reach the network.

The SAR limit also adopted by Europe is 2.0/4.0 W/kg averaged over 10 grams of tissue. The highest SAR value for this device type when properly worn on the body is 0.707W/kg.

Operation Environment

Keep the ambient temperature between -10°C and 50°C while the device working.