CDMA/GPS Tracker

Prime ATC User Manual

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1 Introduction

Prime ATC is a powerful GPS locator which is designed for vehicle, pets and assets tracking. With superior receiving sensitivity, fast TTFF and CDMA frequencies 800/1900. Its location can be real time or schedule tracked by backend server or specified terminals. Based on the embedded wireless tracking protocol, Prime ATC can communicate with the backend server through CDMA 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.

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 ATC
	Power off Prime ATC (If power key is enabled)
Function Key	Geo-Fence mode
	Long press the key to enable/disable Geo-Fence ID0
	Geo-Fence in current position mode
	Long press the key to enable/disable Geo-Fence ID0. If enable Geo-Fence
	ID0, using the current position as the centre of Geo-Fence 0.
	SOS mode (default)
	Long press the key to active SOS alarm
Micro USB	Connect a 5V DC adapter can power on Prime ATC and charge the internal
interface	battery
	Connect a 3.7V Li-ion or Li-Polymer battery can power on Prime ATC
	Backend server developer or administrator can use the data cable to configure
	Prime ATC
Reset Key	Click the key will turn off internal VBAT when OS is abnormal, and then
	press Power Key to restart Prime ATC.
	Note: Reset key is invalid when external battery is used.

2.3 LED Description



 $\label{eq:Figure 1-2}$ There are three LED lights in Prime ATC device, the description as following.

Light	Event	State
GPS LED	GPS fixed failed	Slow flash (blue)
	GPS has been turned off	Dark
CDMA LED	Network has been registered	Slow flash (green)
	Power off	Dark
Power LED	Power on and normal	Dark
	Fully charged	Slow flash (green)
	In charging	Slow flash (red)

Power key was pressed and prepare to power off	Fast flash (red)
Power key was pressed and prepare to	Fast flash (green)
power on	

3 Getting Started

3.1 Parts List

Name	Picture	Remark
Prime ATC Locater	308	The CDMA/GPS locator.
AC-DC Power Adapter	S	It is used to charge the internal battery of Prime ATC.
Prime ATC Data and charger Cable		It the USB data cable which can be used for firmware upgrading and configuration. It also includes the charger interface on the Prime ATC.

3.2 Battery Charging

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

- ◆ Please connect AC-DC power adapter with Prime ATC device.
- ◆ Insert the AC-DC power adapter into the power socket.
- ◆ During the charging process, the Power LED light will flash fast. When the battery is fully charged, the Power LED light will be Ever-light.
- ◆ You can also charge the battery using USB cable which connects Prime ATC device with the PC.
- ◆ Charging will last about 5 hours.

Note: If the Prime ATC device is firstly used, please make sure the battery is fully charged,

3.3 Prime ATC Data Cable

Prime ATC 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 ATC device. Note that, the Power LED light will fast flash.

Power off:

◆ Press the power key about 3 seconds; Power LED light will fast flash and then turn off, which indicates that Prime ATC device has been powered off.

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

4 Trouble shooting and Safety info

4.1 Trouble shooting

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

Specific Absorption Rate (SAR) information:

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This **CDMA/GPS 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.

FCC RF Exposure Information and Statement The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: ATC (FCC ID: ZKQ-ATC) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification when properly worn on the **body is** 1.12W/kg. This device was tested for typical body-worn operations with the back of the handset kept 0 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0 cm separation distance between the

user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of **0 cm** must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.