# LTE Tracker

# AT Plus 4G User Manual

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#### Contents

# **1** Introduction

AT Plus 4G is a powerful GPS locator which is designed for vehicle, human, pets and assets tracking. It works on LTE CATM1 B2/B4/B12 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, AT Plus 4G 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.

# **2 Product Overview**

#### 2.1 Appearance





#### 2.2 Buttons/USB Interface Description

Button /12PIN Interface Description		
KEY/interface	Description	
Power Key	Power on AT Plus 4G	
	Power off AT Plus 4G (If power key is enabled)	
Function Key	SOS mode	
USB interface	Connected to a charger can power on AT Plus 4G Backend server developer or administrator can use the debug cable to configure AT Plus 4G (by engineer not by end user).	
Reset Key	Click the key will turn off internal VBAT when OS is abnormal, and then press Power Key to restart AT Plus 4G.	

### 2.3 LED Description



Figure 1-2

There are four LED lights in AT Plus 4G device, the description as following.

Light	Event	State
GPS LED	GPS signal valid	Fast flash
	GPS turned off, GPS signal invalid	Dark
	Power key was pressed and prepare to	Solid
	power on	
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
WIFI LED	WIFI on	Slow flash
	Power key was pressed and prepare to power on	Solid

# **3 Getting Started**

#### 3.1 Parts List

Name	Picture	Remark
AT Plus 4G Locater		The LTE/GPS locator.
AT Plus 4G charger		It used to be charging for the AT Plus 4G.

#### **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 AT Plus 4G device with the Adapter.
- Charging will last about 5 hours.

Note: If the AT Plus 4G device is firstly used, please make sure the battery is fully charged, which will make the life of battery much longer.

#### 3.3 AT Plus 4G Charger

AT Plus 4G 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 AT Plus 4G 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 AT Plus 4G device has been powered off.

Note: the user can not power off AT Plus 4G if the power key is disabled by protocol.

# **4** Frequency

LTE: Band2、Band4、Band12 GPS:1575.42MHz WIFI:2.4GHz

## **5** Trouble shooting and Safety info

#### 5.1 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.	
Mobile network.	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 off	The function of power key	Enable the function of power key by
AT Plus 4G.	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.
AT Plus 4G can't	The GPS signal is weak.	Please move AT Plus 4G to a place with
fix GPS		open sky.
successfully.		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 AT Plus 4G on the airplane or near medical equipment.

### FCC Caution.

#### **FCC Statement**

Any 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, and

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

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.

ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada licenceexempt 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.

RF Exposure Information (SAR) :

The SAR limit of is 1.6W/Kg averaged over one gram of tissue. Product Type: Tracker , (FCC ID: ZKQ-ATP4GA, IC:8414B-ATP4GA) has also been tested against this SAR limit.

The device was test for typical body-worn and Face up operations, to maintain compliance with RF exposure requirements, please keep a 5mm separation distance between the user face and device.

la limite de das de ic est 1.6w/kg en moyenne par gramme de tissu.produit,

modèle numéro: AT Plus 4G (IC: 8414B-ATP4GA) a également été testé

typique des opérations portés avec le dos de la partie du corps combiné continuait d'ic, pour maintenir la conformité aux exigences d'exposition aux rf, utilisation des accessoires de maintenir une distance de séparation entre l'utilisateur corps de 5 mmet l'arrière de l'appareil.