GL50B_UBI User Manual

GSM/GPRS/GNSS Tracker

TRACGL50BUBIUM001

Version: 1.00

International Telematics Solutions Innovator

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0. Revision History

Version	Date	Author	Description of Change
1.00	2021-11-24	Willie Liu	Initial.

1. Introduction

GL50B_UBI is a mini GNSS tracking device that allows GNSS and base station positioning. It features a 2200-day ultra-long standby time using an internal lithium manganese battery for power supply with outstanding consumption control method. GL50B_UBI supports a flexible switch between the wakeup mode for reporting and the hibernation mode to realize deep dormancy. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The integrated @Track interface protocol allows GL50B_UBI to communicate with a customer mobile phone via SMS or a backend server to transfer a wide variety of reports.

1.1. Reference

Table 1: GL50B_UBI Protocol Reference

SN	Document Name	Remark
[1]	GL50B_UBI @Track Air Interface Protocol.doc	The air protocol interface between GL50B_UBI and backend server.

2. Product Overview

2.1. Check Parts List

Before starting to use GL50B_UBI, make sure to check if the following items have been included with your GL50B_UBI. If anything is missing, please contact your supplier.

Top Bottom

Adhesive Paper

Figure 1: GL50B_UBI Appearance

2.2. Parts List

Table 2: Parts List

Name	Picture
GL50B_UBI Locator	
Adhesive Paper	

3. Getting Started

3.1 Installing a SIM Card

GL50B_UBI uses a micro SIM card. The micro SIM card should be inserted into the holder as shown below with the gold-colored contact area facing up, and pressed firmly until it snaps into place.

Note: Make sure the device has been turned off before inserting or removing the SIM card.

Figure 2: Installing a SIM Card

3.2 Turning the Device On

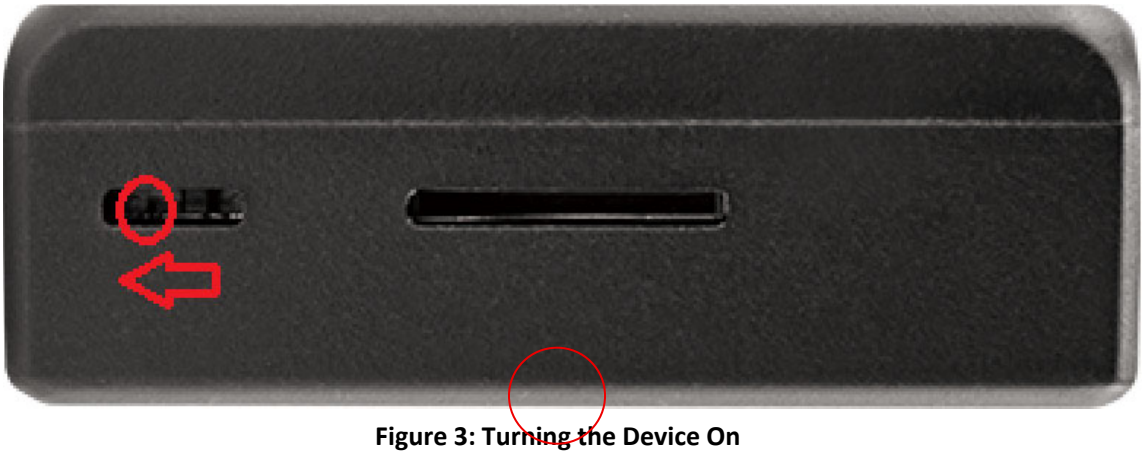

Figure 3: Turning the Device On

Slide the toggle switch to the left to turn on the device. At this time, red light will flash, indicating the power has been switched on. Normally, the light can remain on for a maximum of 5 minutes before it goes off.

Note: If you need to switch on and off the device multiple times, please switch the device on after it is kept switched off for more than 1 minute.
If you replace the battery, please contact our technical support to reset the battery percentage.

3.3 Applying Adhesive Paper

Apply the black adhesive paper onto the casing as shown below to cover circular holes at the top and card slot on the side of the device.

Figure 4: Applying Adhesive Paper

3.4 Device Placement

Place GL50B_UBI with the top facing upwards in the object to be tracked. Make sure there is no metallic object nearby that might negatively affect signal reception.

Figure 5: GL50B_UBI Placement

3.5 LED Status

Table 3: LED Status

LED	Device Status	LED Status
Red LED	Switch-on	Slow flashing (300ms LED ON every 3 seconds) for 30 seconds
	GSM network not available	Double flashing (double turn-on LED: the sequence is 300ms ON / 300ms OFF / 300ms ON every 3s) for 180 seconds
	AT+GTSVR command received	Fast flashing (turn on 300ms every 1 second) for 10 seconds

FCC regulatory conformance：

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.

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

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’ s authority to operate the equipment.

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

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.