

BeeAware-GSM (GL50B) User Manual

GPS Tracker

TRACBEEAWARE-GSM (GL50B)UM001

Revision: 1.00



International Telematics Solutions Innovator

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Contents

Contents	2
Table Index	3
Figure Index.....	4
0. Revision History.....	5
1. Introduction	6
1.1. Reference.....	6
2. Product Overview.....	7
2.1. Check Parts List.....	7
2.2. Parts List	8
3. Getting Started	9
3.1 Installing a SIM Card	9
3.2 Turning the Device On	10
3.3 Applying Adhesive Paper	10
3.4 Device Placement	11
3.5 LED Status	11

Table Index

Table 1: BEEAWARE-GSM (GL50B) Protocol Reference	6
Table 2: Parts List.....	7
Table 3: LED Status	11

Figure Index

Figure 1: BEEAWARE-GSM (GL50B) Appearance	7
Figure 2: Installing a SIM card	9
Figure 3: Turning the Device On	10
Figure 4: Applying Adhesive Paper	10
Figure 5: BEEAWARE-GSM (GL50B) Placement	11

0. Revision History

Revision	Date	Author	Description of Change
1.00	2020-3-30	Alan Zhao	Initial

1. Introduction

BEEAWARE-GSM (GL50B) 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. BEEAWARE-GSM (GL50B) 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 BEEAWARE-GSM (GL50B) 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: BEEAWARE-GSM (GL50B) Protocol Reference

SN	Document name	Remark
[1]	BEEAWARE-GSM (GL50B) @Track Air Interface Protocol.doc	The air protocol interface between BEEAWARE-GSM (GL50B) and backend server.

2. Product Overview

2.1. Check Parts List

Before starting to use BEEAWARE-GSM (GL50B), make sure to check if the following items have been included with your BEEAWARE-GSM (GL50B). If anything is missing, please contact your supplier.

BEEAWARE-GSM (GL50B) is generally used for cargo tracking, will not be used on animals and humans, and will not be used as a portable device.



Figure 1: BEEAWARE-GSM (GL50B) Appearance

2.2. Parts List

Table 2: Parts List

Name	Picture
BEEAWARE-GSM (GL50B) Locator	
Adhesive Paper	

3. Getting Started

3.1 Installing a SIM Card

BEEAWARE-GSM (GL50B) 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 BEEAWARE-GSM (GL50B) 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: BEEAWARE-GSM (GL50B) Placement

3.5 LED Status

Table 3: LED Status

LED	Device Status	LED Status
Red LED	Bluetooth pairing	Fast flashing (100ms on 100ms off)
	Bluetooth paired successfully	Slow flashing (2s on 2s off) for 40 seconds and then off
	Bluetooth pairing fails	Off
	Toggle switch is turned on.	Flashing (600ms on 600ms off)
	The device is registered to network and has sent data successfully.	On for 30 seconds and then off
	No SIM card inserted or other status	Flashing (600ms on 600ms off) for a maximum of 5 minutes and then off

Note: When the **AT+GTSVR** function works, the LED indicates Bluetooth pairing status instead of network status.

4. Bluetooth

The device role of Bluetooth could be Master and Slave. When the device role is Slave, the device will provide below services: device information service, battery information service, virtual serial port service. Other devices can read or use these services after connecting devices. When the device role is Master, the device will provide below services: the others devices can read or use the above services after connecting devices, connect the designated device to read the data or related information of the designated Bluetooth devices. After reading the data, the server can be reported to the server by the corresponding message.

5. FCC Certification

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

FCC Radiation Exposure Statement:

This equipment complies with FCC 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.