

Bluetooth GPS Receiver



User Manual

■ Caution

Read carefully before you use:

- Global position system (GPS) is created by American Ministry of National Defense, and they got the full responsibility about the preciseness and the maintenance. Any changes may cause the capacity and preciseness of GPS differed.
- If the receiver is used inside of buildings, tunnels, or any huge objects beside you, the GPS signals might be cut-off or disturbed.

■ Introduction

This Bluetooth GPS Receiver is designed as a device with high sensitivity (tracking up to 20 satellites). It will update the satellite position every second. The Bluetooth GPS Receiver auto-locating feature is capable of automatically determining a navigation solution without intervention. However, acquisition performance could be interfered and do cold start if the receiver were initialized with occurrence of the following events:

1. First in use or replace the battery.
2. The GPS receiver is not in use for more than 1 months or transportation over distances further than 400 kilometers.

■ Package contents

Begin by unpacking. Your Receiver box should contain:

1. Bluetooth GPS Receiver
2. Lithium-ion battery
3. User Manual
4. Travel charger
5. Car charger
6. Companion CD

■ Technical Specification

1. General

Core Module : SiRF Star III
Satellite channel number : Tracking up to 20 satellites, all-in-view 12 parallel satellites;
GPS frequency : 1575.42 MHz Receiver: L1, C/A code.
Antenna type : Built-in active antenna
External connector : standard MMCX

2. Acquisition Time

Refresh: 0.1 sec
Code start: <45 sec. (average)
Warm start <38 sec. (average)
Hot start: <1 sec. (average)
Position information update period: 1 sec.

3. Feature summary

External Power supply : 5V DC
Battery : 3.7V , 900mAH Rechargeable Lithium-ion battery
Power consumption : 100mA (typical)
Charging time: after charging 3 hours you can use for 9 hours.
Dimension size: 82mm×52mm×24mm
Weight: > 80 gm

■ Start to use

Step 1. Fully charge the battery before first time use

Step 2. Connect to your Host device PC or PDA

- a. Press the power button for 2 seconds to turn on the Bluetooth GPS receiver.
- b. Put the Bluetooth GPS receiver at proper place (with open sky) to receive the satellites signal.
- c. Turn on the power of PC/PDA.
- d. Search for Bluetooth device by using Blue tooth manager on your PC/PDA. The GPS device required no password for connection. But some Bluetooth system is forced to enter password, please enter [0000] in such case.
- e. Connect to Bluetooth GPS Receiver and then make sure that baud rate is set at 9600 bps (standard) in your application program.

Step 3. Place the receiver under open sky for faster position acquisition

Note: Some PDA requires restarting the Blue tooth function when you need to re-connect.

Blue Tooth GPS Receiver

■ Hardware description

Power ON/OFF : Press button for 2 seconds

LED indicator :

-a. Message Display :

Position fixed –

1 LED flashing every
three seconds.

Searching –

2 LED switching.



Bluetooth connected –

1 LED flashing every
three seconds.

Disconnected –

2 LED switching.

-b. Power Level Indicator : By pressing power button for 1 second to check the power level



Blue Tooth GPS Receiver

■ Warranty

The Bluetooth GPS receiver comes with one year free warranty service including parts and labor from the day you purchase. Any failure of this product within one year period under normal conditions will be replaced at no charge to the customers.

The warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs, inappropriate disassemble.

- Since the Bluetooth GPS Receiver got high performance rechargeable lithium-ion battery, we are strongly recommended you not to place it under the sunshine for a long period time.
- The warranty will be invalid if any unauthorized-operation found.

■ Trouble Shooting

6.1 Problem of Setup

Error/Problem	Root Cause	Trouble shooting
Can not find the GPS device through Bluetooth interface	Install not correct or battery low	Check if Bluetooth GPS Receiver is installed properly, and confirm the battery level is suitable (green LED blinks or none LED)
Unable to connect through Bluetooth	Configuration incorrect	Refer to your PDA's user manual for configuration.
Fail to open COM Port	Bluetooth manager is not configured properly, or the COM port is adopted by other programs.	Please check your Bluetooth manager settings, close the program which might occupy COM ports and try again. Or check if there is any password protection.
No NMEA code (GPS data flow)	Some PC/PDA will enter the power saving mode if you stop input for a few minutes. Bluetooth interface will be reset in such case. Wrong baud rate/com port setting	Disable the power saving mode, try to connect GPS receiver again. Modify with right baud rate & COM port
Poor GPS signal	Storm effect Atmosphere turbulences SA ON by USA military.	NA

6.2 Concerning of poor satellites signal

It is possibly unable to receive signal or poor signal in some places:

- If the Blue tooth GPS Receiver is placed inside the car, some heat insulation film may affect the signal degrade or signal lost.
- GPS satellite is owned by America military; sometimes they may reduce the accuracy for some reason. In such cases, the position may not be fixed accurately.

➤ **FCC Compliance Statement:**

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: 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.