

Welcome

Thank you for buying Easy Comm GPS Bluetooth SiRF III, the total SiRF III chipset GPS solution from Best Buy with high capacity lithium-ion battery, GPS antenna and Bluetooth transmitter/receiver integrated system.

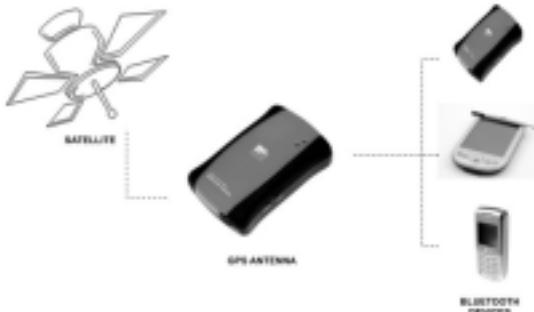
This device with total Bluetooth connectivity allows its use in car navigation systems, security systems, geographic measurement, investigations and even agricultural purpose. Its powerful antenna will allow you to receive the signal even in faraway places or even inside a room (although for a proper reception we advise you to use it in the open air).

Thanks to its new chipset SiRF III you will be able to track the signal of 20 different satellites simultaneously with a signal reception every 0.1 seconds and a position update every second. With this GPS you will get a complete coverage and maximum accuracy at any time.

This device is the must have accessory for every user because its many applications, total connectivity, maximum accuracy and simplicity of use.

Features and functions

- SiRF III chipset: tracks the signal from up to 20 different satellites simultaneously.
- Position signal reception every 0.1 seconds and update of the location every second.
- Total connectivity: this device can communicate by Bluetooth interface with other electronic devices like desktop and portable computers, PDAs, mobile phones, etc (with Bluetooth connection)
- Low consumption.
- Small and compact, with an attractive design in red and black.
- Very easy to connect and use for every user.
- It can be used connected to the car navigation system, with security system, for agricultural purposes, geographic measurements, etc.



Specifications

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1. Chipset

- SiRF Star III, tracks the signal of 20 positioning satellites simultaneously.
- Frequency: L1, 1575.42 MHz
- Receiving code: C/A Code

2. Output specifications and interface

- Data format: NMEA-0183, SiRF binary
- Output data: GGA, GSA, GSV, RMC, VTG, GLL
- Bluetooth Serial Port Profile (SPP) compatible
- Bluetooth standard: Bluetooth specification 1.1, compatible
- Bluetooth criterion: Class 2 (the shortest distance for connecting is 10m with no obstacle).
- Serial transfer speed: 19200 bps
- Datum: WGS 84
- Output extremity: Mini USB tipo B
- Size: 70x44x22.5 mm
- Weight: <60g

3. Power supply

- Voltage input: DC5V+0.3V
- Lithium-ion battery: 3.7V 800mAh rechargeable battery
- Working time: in the condition of being charged fully, it can work above 6 hours continuously.

4. Positioning time

- Cold start:<42 sg
- Warm start:<38 sg
- Hot start:<1 sg
- Reacquisition time:<0.1 sg
- Automatic search:<30 sg
- Accuracy: 10m

Package content

Please open the packaging and check if it contains the following list of items. In case there is one item missing, please check with your store.

1. GPS Bluetooth SiRF III device x 1
2. Rechargeable Lithium-ion battery x 1
3. Home charger x 1
4. Car charger x 1
5. USB cable charger x 1
5. User manual x 1
6. Warranty card x 1

Caution

Please read before you start to use Easy Comm GPS Bluetooth SiRF III:

- Global Position System (GPS) is obtained 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 you use this device inside buildings, tunnels, or besides any huge objects, the GPS signals might be cut-off or disturbed. Please do not consider that the receiver is malfunction.
- Sometimes the speed-test alarm system may interfere with GPS signal. If it really do, please suspend it temporarily.
- The receiver is made of high-technology electronic components. Please do not leave it exposed under direct sunshine for a long time.

Start to use

Easy Comm GPS USB SIRF III has a long-lasting rechargeable lithium-ion battery which offers 6 hours of continuous working. Please fully charge the battery before you use the device firstly. To do that please take at least 6 to 8 hours for charging. Follow these steps to get the maximum performance:

- Take the battery from the packaging and insert it in the GPS device.
- Connect the charger to the device through the USB mini connector and plug the charger to the electrical network.
- The red LED of the device will light up and blinking. This shows the battery is being charged.
- Once the charging process has finished the red LED will turn off.



In case the battery finishes while you are using the GPS in the car you can connect it to the car charger. This way you can use the GPS continuously.

Also you can use the USB cable to charge the battery through the USB port of your desktop or portable computer in case there is not a socket at hand.

Turning the unit on and testing the GPS function

Make sure that the battery of the device is correctly charged before starting to use it to get a proper performance.

1. Slide the on/off button to "ON" position as it is shown in the picture.



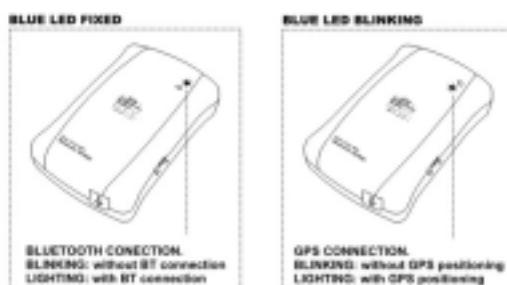
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2. Then the blue and yellow LEDs will light up. This shows the unit has started to work. Blue LED is for Bluetooth and yellow LED is for GPS.

3. LED status description:

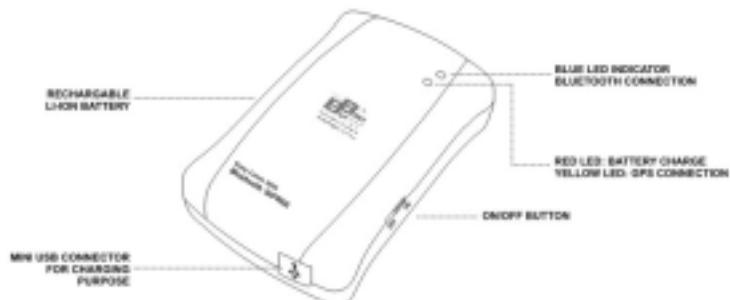
Blue led. If the blue LED keeps blinking it shows the unit is not connected to any Bluetooth device. If this LED keeps lighting it shows the unit has connected with a Bluetooth device.

Yellow led. If the yellow LED keeps blinking it shows the unit is positioning. If this LED keeps lighting it shows the positioning is finished.



Note. The yellow LED and red LED is the same button. When slide "on/off" to "off", it is red LED. When slide "on/off" to "on", it is yellow LED.

Hardware description



Quick start

1. Slide the on/off button to "ON" position to turn the device on.
2. Locate Easy Comm GPS Bluetooth SiRF III in a appropriate place to receive the signal (in firstly use of this receiver, we strongly recommend to bring your Easy Comm GPS Bluetooth SiRF III outdoors and open sky at least 15~20 minutes for fixing the position and almanac update)
3. Turn your PC/ PDA/ mobile phone on.
4. Search the Bluetooth GPS using the Bluetooth management of your PC/ PDA/ Mobile phone. The GPS device does not need any password to connect. But if you are required to enter password you can use the following "0000".
5. Connect Easy Comm GPS Bluetooth SiRF III.

Configuration for PC connection

NOTE. Easy Comm GPS Bluetooth SiRF III is a GPS receiver antenna so it needs a navigation or mapping software to be installed in the bluetooth device to work (not included)

Please follow these steps to connect the GPS receiver to your PC:

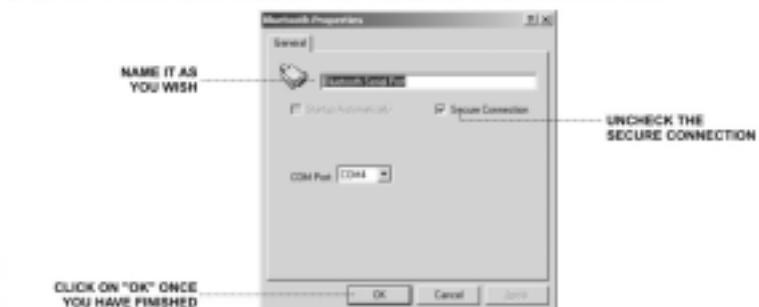
1. The PC you are going to use with the GPS must have Bluetooth interface. If your PC has not, you can buy a Bluetooth adapter.
2. Open the Bluetooth Manager of your PC to check if it already has a Bluetooth serial port configuration like the one shown in the picture below:



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NOTE. This is only an example. The outlook of the window shown in the picture may vary according to the Bluetooth management software you have installed in your PC.

3. If you do not have any Bluetooth serial port configurated please create it by yourself. Click on "Add COM port". The configuration should be like this:



4. If there is already one Bluetooth serial port configurated, please check the content. Some Bluetooth devices will enable the secure connection. Please refer to the configuration as above to uncheck it.

5. Power on your Easy Comm GPS Bluetooth SiRF III as shown in "Turning the unit on and testing the GPS function". If the battery has been correctly charged the blue LED will light up; this indicates that the unit is ready to start working.

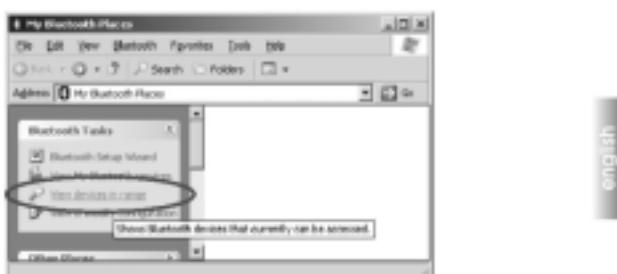
- If the blue LED is blinking means that it does not find any Bluetooth device.
- If the blue LED is fixed it means that the GPS has detected a Bluetooth device and is synchronizing with it.



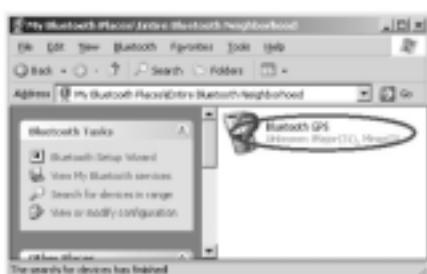


6. Search in your computer "My Bluetooth Places". If you are using the GPS firstly you should see nothing in the open window.

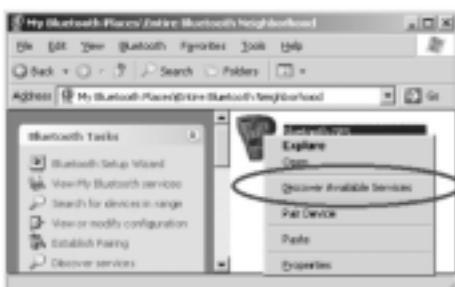
Click on "View devices in range" to see the list of devices connected by the Bluetooth interface to your computer.



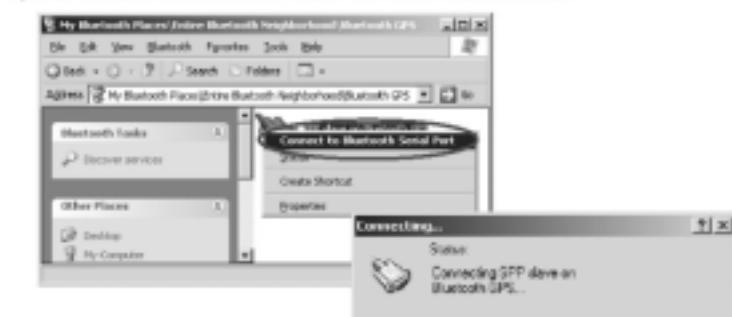
7. Then you will be shown the devices your PC has detected in its range of connection. You also should find the device "Bluetooth GPS" as shown in the picture below:



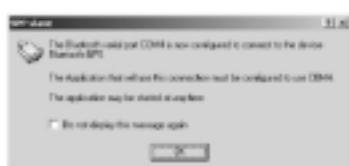
8. Right click on the "Bluetooth GPS" icon and select the option "Discover Available Services".



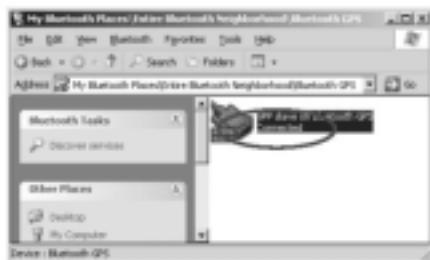
9. You should find the service "SPP Slave". Right click on the icon and select the option "Connect to Bluetooth Serial Port" Wait some seconds.



10. A successful connection message will pop up. Click on OK to finish the process.



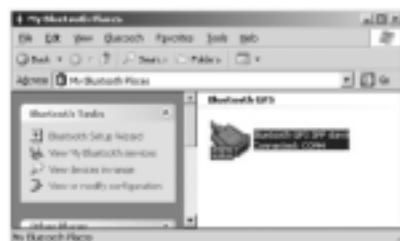
11. Back to the Bluetooth service view. You should see the icon changed to "Connected".



12. If you wish to use the connection more easily next time, you can create a shortcut as shown below:



13. You will see the shortcut you have just created as shown in the picture:



Configuration for mobile phone or PDA connection

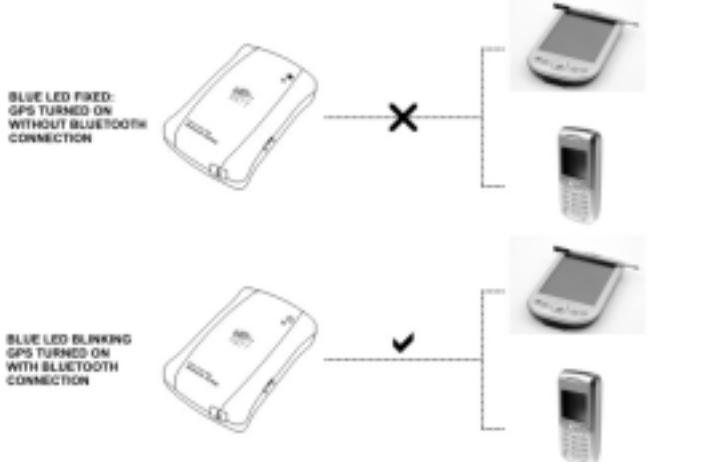
Following we will show you how to connect your GPS to a mobile phone or a PDA using the Bluetooth interface. The way of connecting may vary depending on the mobile phone or PDA model.

We remind you that you must have a navigation or mapping software installed in your Bluetooth device.

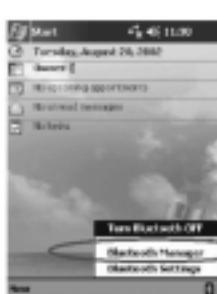
1. Turn your PDA or mobile phone on and active its Bluetooth connection so it can find the GPS antenna.

2. Turn Easy Comm GPS Bluetoth SIRF III on as shown in "Turning the unit on and testing the GPS function" If the battery has been correctly fully charged the blue LED will light up indicating that the unit is ready to start working.

- If the blue LED is blinking shows that the GPS is turned on but does not find any Bluetooth device to connect.
- If the blue LED is fixed shows that the GPS is turned on and has synchronized with a Bluetooth device.



3. See the screen, click Bluetooth mark at the bottom, and then select "Bluetooth Manager" as follows:



4. If this is the first time you use Easy Comm GPS Bluetooth SIRF III, click the Bluetooth mark at the bottom as follows:



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5. Then the Bluetooth connection wizard will show up. Select "Explore a Bluetooth device" and click on "Next". In the next page, click on the box "Device" to search Bluetooth devices. Your PDA or mobile phone will search the Bluetooth GPS. Wait some seconds until the device finds the GPS and shows it in the window. Click the icon to search for service.



6. To create a shortcut go back to "Explore a Bluetooth device" window and click on "Next" to list the Bluetooth connection services of the GPS receiver. "SPP Slave" should appear in the service list box "Service Selection" Click on the "SPP Slave" icon and click on "Next" to finish the shortcut creation. Do not forget to uncheck "Secure connection" box.



7. Go back to the main screen of "Bluetooth manager" as below. Please double-click on the icon "Bluetooth GPS: SPP Slave" to connect to the Bluetooth GPS receiver and wait some seconds. If connection is successful, a green arrow will be shown as below at right.



8. Once the synchronization between Easy Comm GPS Bluetooth SiRF III and the Bluetooth device (PDA or mobile phone) has been done you can already start receiving the GPS signal through the receiver antenna. So, you can also start using your navigation or mapping software.

Troubleshooting

Error/Problem	Cause	Solution
Can not find the GPS device through Bluetooth interface	Incorrect installation or low battery	Check if EasyComm GPS Bluetooth is installed properly, and confirm the battery level is suitable (the blue and yellow LED does not turn on)
Unable to connect through Bluetooth	Incorrect configuration	Please refer to the installation section of this user manual to re-install or 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 being used by another software.	Please check your Bluetooth manager settings, close the software that may use COM ports and try again. Or check if there is any password protection.
No NMEA code (GPS data flow)	(1) 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. (2) Wrong baud rate/com port setting	(1) Disable the power saving mode and try to connect GPS receiver again. (2) Correct with right baud rate & COM port
Unstable GPS signal	(1) Degraded by anti-sunlight film with receiver placed inside car (2) Some cases described in section "Weak signal"	Avoid the obstacles that are causing the bad reception of the signal.
Poor GPS signal	(1) Storm effect (2) Atmosphere turbulences (3) Satellite ON by USA military	N/A

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Concerning of Poor GPS Signal

It is possible to be unable or to receive low GPS signal in the following cases:



Inside the tunnel, GPS signal may block.



Covers above, GPS signal may block.



Inside buildings, GPS signal may block.



Beside some buildings, GPS signal may distort.



Inside forests, or too many covers, GPS signal may distort.

- If you use Easy Comm GPS Bluetooth SiRF III inside the car, some anti-sunlight windscreens film will make the GPS signal degraded or signal blank.
- GPS satellite is owned by America military, sometimes they will turn-down the accuracy by some reason.

In such cases, the GPS position may not fix exactly.

Warranty

The Bluetooth GPS receiver is warranty for free from defect in material and function for 2 years from the date of purchase. Any failure of this product within the period under normal conditions will be repaired at no charge to the customers.

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

Since the Bluetooth GPS receiver has a high performance rechargeable lithium-ion battery, we strongly recommend you not to place it under the sunshine for a long time.

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Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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.

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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.