

# Globalsat Bluetooth GPS Receiver

## BT-368 User Manual

Version 1.0

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# 1. Product Information

## 1.1 Product Description

BT-368 is a high performance Bluetooth GPS receiver. It uses SiRF StarIII chipset, which track up to 20 satellites simultaneously. With a high-performance antenna built-in, BT-368 ensures excellent signal reception.

BT-368 takes advantage of the Bluetooth technology to offer hassle free installation. It connects wirelessly to your Bluetooth enabled PDA, laptop, or other devices.

BT-368 uses a high capacity rechargeable lithium ion battery and offers more than 10 hours of operation time. BT-368 is the best companion of your PDA, mobile phone, or other portable devices for navigation purposes.

## 1.2 Product Features

- ✓ SiRF StarIII chipset
- ✓ 20 parallel channels
- ✓ Extreme fast TTFF at low signal level
- ✓ Bluetooth enabled
- ✓ High capacity rechargeable battery
- ✓ NMEA-0183 compliant protocol (Default: GGA, GSA, GSV, RMC, VTG, GLL, and ZDA) and SiRF binary protocol
- ✓ Support SBAS (WAAS, EGNOS, and MSAS)
- ✓ Three LED indicators

## 1.3 Product Specifications

<b>GPS Receiver</b>	
Chipset	SiRF StarIII
Frequency	L1, 1575.42 MHz
Code	C/A Code
Protocol	NMEA 0183 v3.01 (Default: GGA,GSA,GSV,RMC,VTG,GLL,ZDA) and SiRF binary
Available Baud Rate	4800/9600/14400/19200/38400/57600/115200
Channels	20
Antenna	Built-in Patch Antenna
Sensitivity	Acquisition: -146dBm, Tracking: -159dBm
Cold Start	42 seconds
Warm Start	38 seconds
Hot Start	1 second
Reacquisition	0.1 second
Accuracy	Position: 3 m / 2.5 m with DGPS Velocity: 0.1 m/s Time: 1ms RMS
Maximum Altitude	< 18,000 meter
Maximum Velocity	< 515 meter/second
Maximum Acceleration	< 4G
Update Rate	1 Hz
DGPS	WAAS, EGNOS, MSAS
<b>Bluetooth</b>	
Version	2.0
Range	10 Meter (Class 2)
Support Profile	SPP Profile
<b>Physical Characteristics</b>	
Dimensions	40mm X 70mm X 9.2mm
Weight	30g
<b>DC Characteristics</b>	
Power Supply	5.0Vdc
Battery	Rechargeable Li-ion, 700mAH
Battery Life	10 Hours
<b>Environmental Range</b>	
Humidity Range	5% to 95% non-condensing
Operation Temperature	-10°C to 60°C
	0°C to 45°C while charging
Storage Temperature	-20°C to 70°C

## 2. Hardware Description

### 2.1 Overview



## 2.2 LED Behaviors

### Bluetooth LED (Blue)

Status	Description
Blink once per three seconds	Not linked
Blink once per second	Linked

### GPS LED (Green)

Status	Description
Blink once per second	Position fixed
Steady on	Position not fixed

### Power LED (Red/Orange)

Status	Description
Red light steady on	Battery low
Off	Battery good
Orange light steady on	Battery charging

## 2.3 Power Button

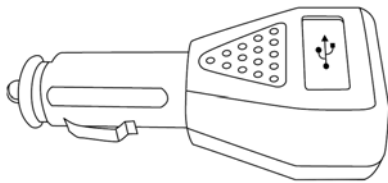
Action	Function
Press and hold the button for 1 second while off	Power turned on
Press and hold the button for 1 second while on	Power turned off

## 2.4 USB Charge Connector

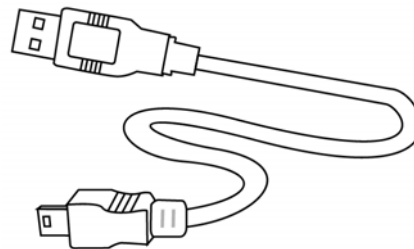
Connect to USB cable for battery charging. It needs about 3 ~ 4 hours to fully charge the battery.

### 3. Package Contents

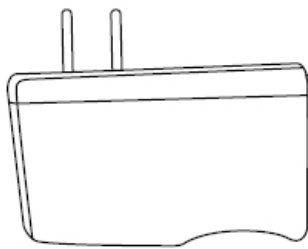
- ✓ BT-368
- ✓ Car Charger
- ✓ USB cable for recharging
- ✓ AC Charger (Optional)
- ✓ User Manual and Software Utility CD



Car Charger



USB Cable for recharging



AC Charger (Optional)

## 4. Getting Start

### Step 1: Charging Battery

Please charge the battery by the included charger till the orange LED goes off before using BT-368 for the first time.



### Step 2: Turn on the power

Press and hold the power button for one second to turn on your BT-368.

### Step 3: Wait for GPS fixed

Place your BT-368 in a place where it can see the sky directly and check the GPS LED. If the GPS LED starts blinking, your position is fixed.



#### **Step 4: Connect to your Bluetooth-enabled devices**



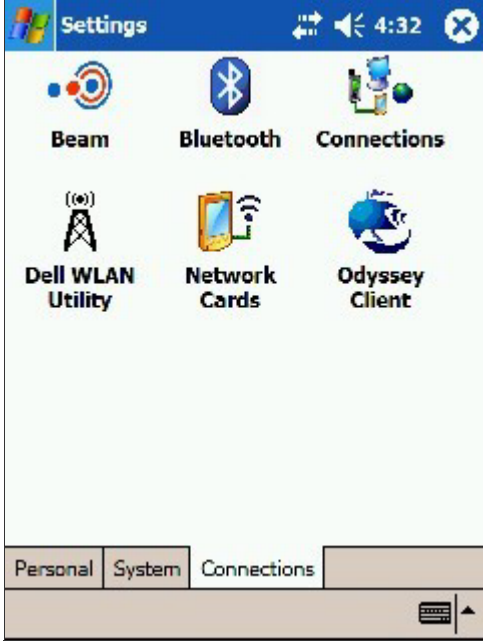
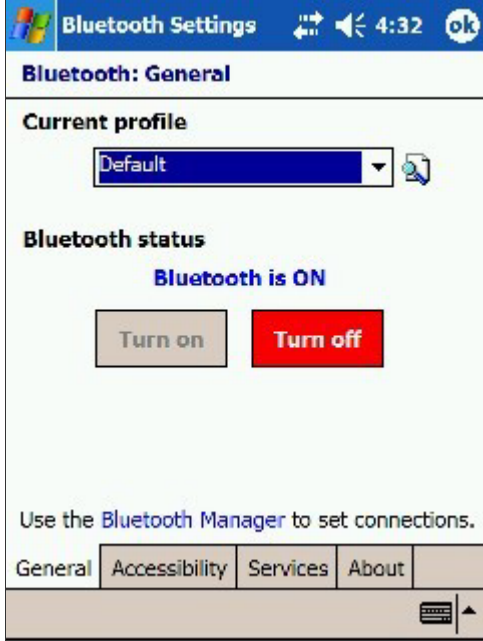
Run the Bluetooth manager from your Bluetooth enabled device, search Bluetooth devices, select device (BT-368), and connect it to your BT-368. Once the Bluetooth LED is blinking once per second, the link is established successfully. If a passkey is asked, please enter "0000".

#### **Step 5: Start Navigation Software**

Start the navigation software on your Bluetooth enabled device.

## 5. Troubleshooting

### 5.1 Connect BT-368 to a Pocket PC

 <p>1. Tap on [Start].</p>	 <p>2. Tap on [Settings].</p>
 <p>3. Tap on Bluetooth button.</p>	 <p>4. Turn on Bluetooth function.</p>



5. Tap on [New] button.



6. Select [Explore a Bluetooth device] item.



7. Tap on the [BT-GPS-xxxxxx] icon.



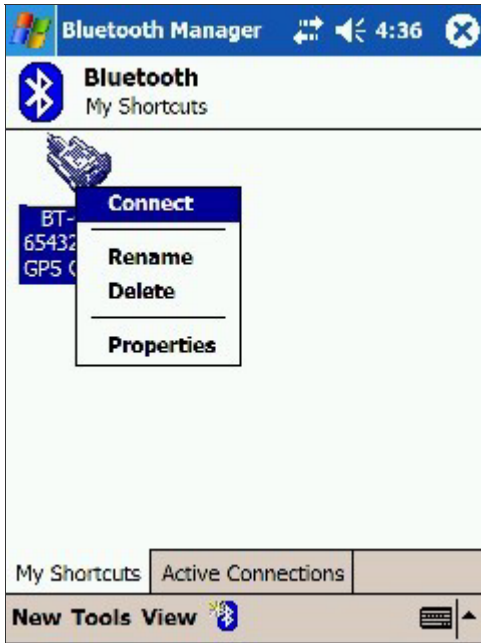
8. Select BT-GPS COM Port, and then tap [Next] button.



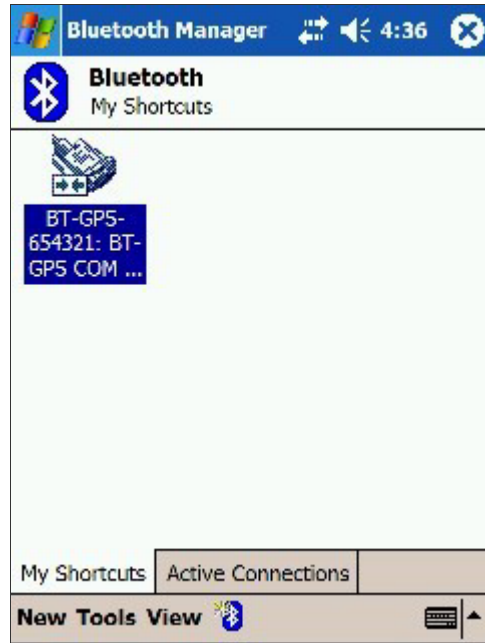
9. Tap on [Finish] button.



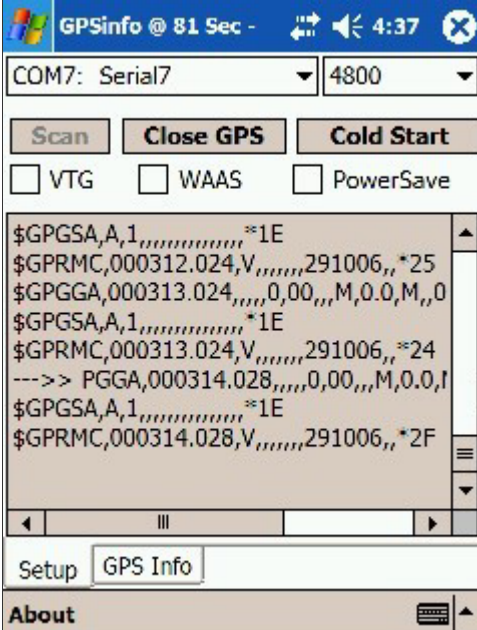
10. Tap and hold on BT-GPS button.

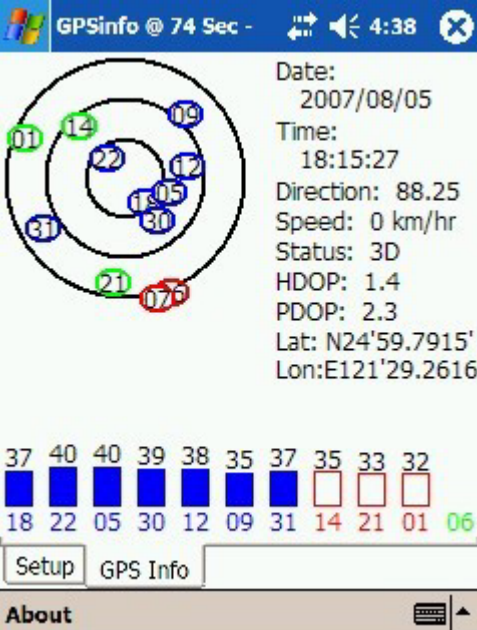


11. Select [Connect].



12. The connection between BT-368 and your Pocket PC is established.





13. You can start the navigation software or GPSinfo program to check the GPS positioning status.

## 5.2 Bluetooth is unable to be connected

- (1) Check if the Bluetooth status LED is flashing normally.
- (2) Check if the battery power is enough. If not, please recharge it.
- (3) Check if the other Bluetooth device is enabled or not.

## 5.3 GPS cannot be positioned

- (1) Check if the GPS status LED is flashing normally.
- (2) Check if the battery power is enough. If not, please recharge it.
- (3) If GPS cannot be positioned for long, apply GPSinfo software to make it a Cold Start, and move it to an open space for performing the positioning task.

## 6. Impairment Information

### Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

#### **IMPORTANT NOTE:**

##### 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. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## **Industry Canada statement:**

This device complies with RSS-210 of the Industry Canada 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.

### **IMPORTANT NOTE:**

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

## Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN60950-1:2001 A11:2004  
Safety of Information Technology Equipment
- EN50371 : (2002-03)
- Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) -- General public
  
- EN 300 328 V1.7.1: (2006-10)
- Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  
EN 301 489-1 V1.6.1: (2005-09)  
Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-17 V1.2.1 (2002-08)
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

# CE 0560



 Český [Czech]	<p>[<i>Jméno výrobce</i>] tímto prohlašuje, že tento [<i>typ zařízení</i>] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.</p>
 Dansk [Danish]	<p>Undertegnede [<i>fabrikantens navn</i>] erklærer herved, at følgende udstyr [<i>udstyrets typebetegnelse</i>] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.</p>
 Deutsch [German]	<p>Hiermit erkläre [<i>Name des Herstellers</i>], dass sich das Gerät [<i>Gerätetyp</i>] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.</p>
 Eesti [Estonian]	<p>Käesolevaga kinnitab [<i>tootja nimi = name of manufacturer</i>] seadme [<i>seadme tüüp = type of equipment</i>] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.</p>
 English	<p>Hereby, [<i>name of manufacturer</i>], declares that this [<i>type of equipment</i>] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.</p>
 Español [Spanish]	<p>Por medio de la presente [<i>nombre del fabricante</i>] declara que el [<i>clase de equipo</i>] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.</p>
 Ελληνική [Greek]	<p>ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [<i>name of manufacturer</i>] ΔΗΛΩΝΕΙ ΟΤΙ [<i>type of equipment</i>] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.</p>
 Français [French]	<p>Par la présente [<i>nom du fabricant</i>] déclare que l'appareil [<i>type d'appareil</i>] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.</p>
 Italiano [Italian]	<p>Con la presente [<i>nome del costruttore</i>] dichiara che questo [<i>tipo di apparecchio</i>] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.</p>
 Latviski [Latvian]	<p>Ar šo [<i>name of manufacturer / izgatavotāja nosaukums</i>] deklarē, ka [<i>type of equipment / iekārtas tips</i>] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.</p>
 Lietuvių [Lithuanian]	<p>Šiuo [<i>manufacturer name</i>] deklaruoja, kad šis [<i>equipment type</i>] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.</p>
 Nederlands [Dutch]	<p>Hierbij verklaart [<i>naam van de fabrikant</i>] dat het toestel [<i>type van toestel</i>] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.</p>
 Malti [Maltese]	<p>Hawnhekk, [<i>isem tal-manifattur</i>], jiddikjara li dan [<i>il-mudell tal-prodott</i>] jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.</p>
 Magyar [Hungarian]	<p>Alulírott, [<i>gyártó neve</i>] nyilatkozom, hogy a [<i>... típus</i>] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egység eldírásainak.</p>

<p>🇵🇱Polski [Polish]</p>	<p>Niniejszym <i>[nazwa producenta]</i> oświadcza, że <i>[nazwa wyrobu]</i> jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.</p>
<p>🇵🇹Português [Portuguese]</p>	<p><i>[Nome do fabricante]</i> declara que este <i>[tipo de equipamento]</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.</p>
<p>🇸🇯Slovensko [Slovenian]</p>	<p><i>[Ime proizvajalca]</i> izjavlja, da je ta <i>[tip opreme]</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.</p>
<p>Slovensky [Slovak]</p>	<p><i>[Meno výrobcu]</i> týmto vyhlasuje, že <i>[typ zariadenia]</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.</p>
<p>🇫🇮Suomi [Finnish]</p>	<p><i>[Valmistaja = manufacturer]</i> vakuuttaa täten että <i>[type of equipment = laitteen tyyppimerkintä]</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.</p>
<p>🇸🇪Svenska [Swedish]</p>	<p>Härmed intygar <i>[företag]</i> att denna <i>[utrustningstyp]</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.</p>

## NCC 必要警語

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

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