

\*\*\* USER'S MANUAL \*\*\*

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**FCC ID : SRKWPBT74A**

## The Federal Communication Commission 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 instruction, may cause harmful interference to radio communication. 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 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.**

Use only shielded cables to connect I/O devices to this equipment. You are cautioned that change or modifications not expressly approved by the party responsible for compliance could void your 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, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERECE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIREED OPERATION.

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.



# **GPS Bluetooth Receiver User's Guide**

# GPS Bluetooth Receiver

*User's Guide*

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## 1. Read Me First

1. The battery must be charged for at least 8 hours for the 'INITIAL' use. The LED2 (ORANGE) will turn off after 3 hours' charging, please keep on charging for 5 more hours. Thereafter, for each time's battery charging please fully charge for 3 hours.
2. We strongly recommend that remove the battery if the device will not be used for over 2 weeks. Do not remove the battery within 2 weeks.
3. For fast data tracking purpose staying still before get fixed is recommended. (FIX then GOES!!)
4. Please note that the device will only receive the signal under the open sky. In this case, putting the device under the windshield is recommended.

## 2. Box Contents

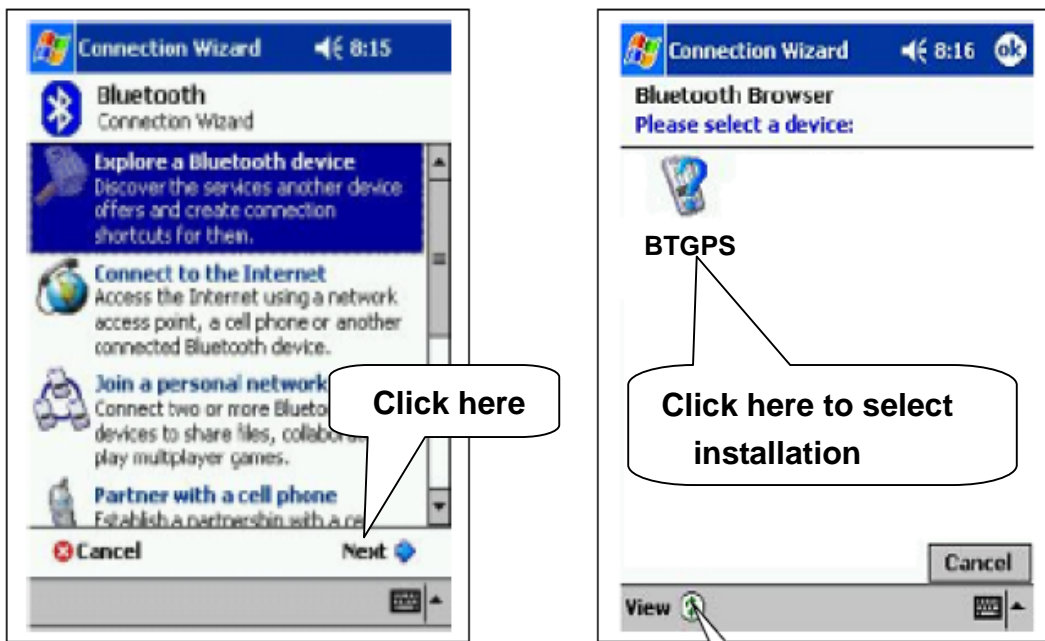
1. GPS Bluetooth Receiver
2. Lithium-ion rechargeable battery
3. Car charger
4. Power adapter
5. Document CD
6. Anti-Slip Rubber Pad

## 3. Getting Started

1. Install the battery
2. Turn on the GPS Bluetooth receiver.  
Press the power button for 1 second or until the LED1 (GPS Fix Status) turns into **RED** and LED3 (Bluetooth Status) turns into **Blue**.
3. Activate Bluetooth function of your PDA / PC  
Prior to activating the Bluetooth function of your PDA / PC, please make sure the device is equipped with Bluetooth function, and the driver software has been installed.
4. Activate Bluetooth Manager & Established New Connections.  
Illustrations using HP 2100 PDA as follows:
  1. First, find the device with which you wish to establish connection.
  2. Open "Bluetooth Manager" on your pocket PC.
  3. Press "New".
  4. Press "Connect".

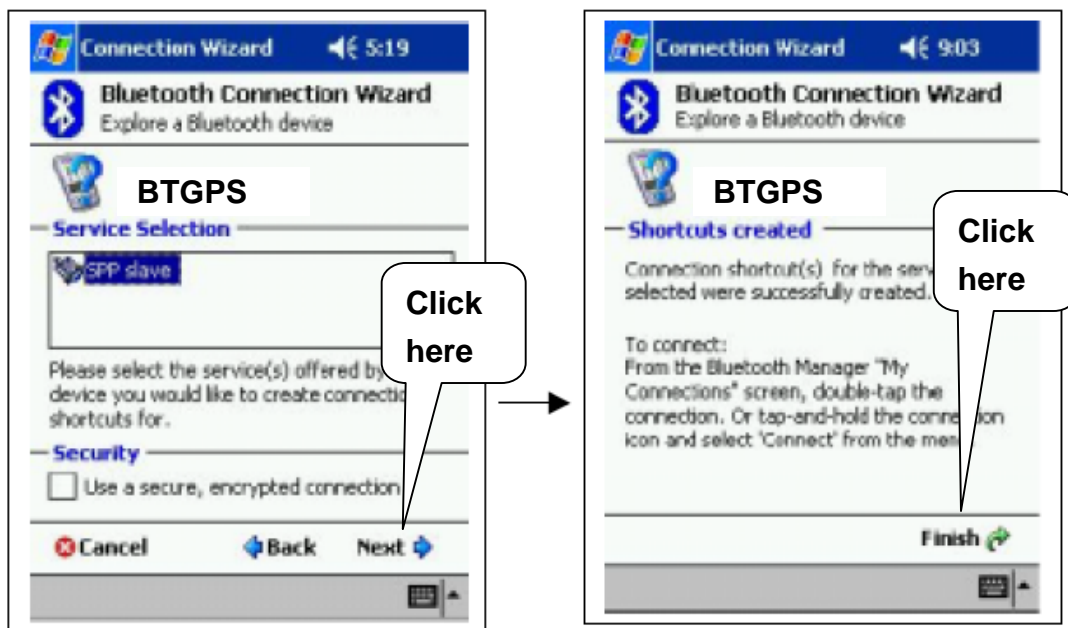
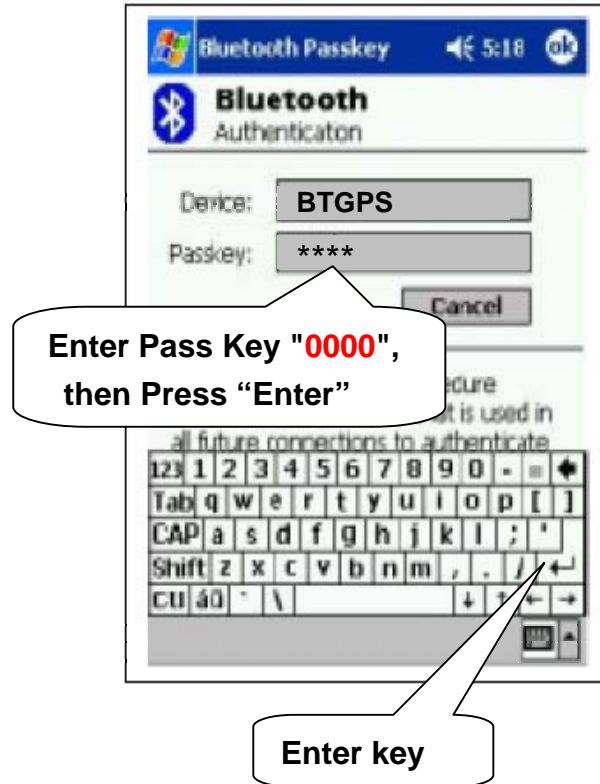
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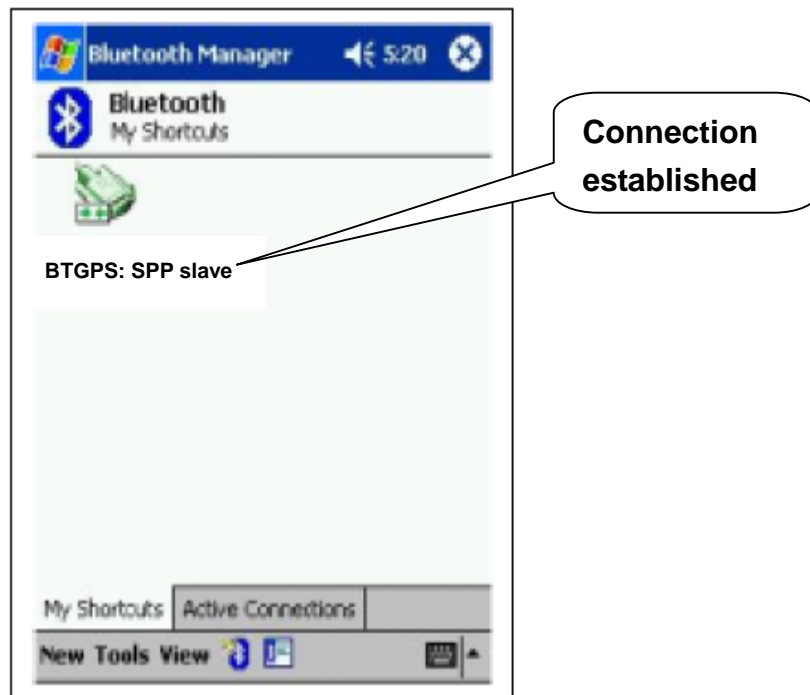
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**The connection between GPS Bluetooth receiver and PDA has been successfully established**

## 5. Turn off the GPS Bluetooth receiver

Press the power button for 1 second, all LEDs will go off.

**We recommend that close the E-map before turning off the GPS Bluetooth receiver, in order to avoid any possible PDA /PC freeze.**



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## 4. Hardware Description



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## 5. LED Indicator

Power on:

LED1: GPS Fix Status	LED2: Power Status	LED3: Bluetooth Status
<b>Red (ON)</b> GPS not fixed yet!	N/A	<b>Blue (ON)</b> Blinking very quickly for the first 5 seconds, then blinking slowly (in pairing mode)

GPS get fixed/Bluetooth connected:

LED1: GPS Fix Status	LED2: Power Status	LED3: Bluetooth Status
<b>Red</b> Blinking for every 1 seconds	N/A	<b>Blue</b> Blinking quickly

Low battery: **LED2 (ORANGE) blinking for every 1 second**

Charging: **LED2 (GREEN) ON**

Battery is fully charged: **LED2 (GREEN) turns off**

GPS Bluetooth Receiver will automatically turns off if no Bluetooth Connection in 10 minutes

**GPS Bluetooth operates on OS with Bluetooth function that supports SPP**

**In order to avoid any unexpected problem,  
DO NOT attempt to change the default baudrate**

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## 6. Specification

### GPS Features

Chipset	Atmel ANTARIS 4
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	16 channels
Antenna (Internal)	Built-in low noise antenna

### Sensitivity

To – 158dBm Tracking, Superior Urban Canyon Performance

### Time to First Fix (TTFF)

Cold Start	34sec, average
Warm Start	33sec, average
Hot Start	3.5sec, average
Reacquisition	< 1sec
Update rate	1Hz (max.)

### Accuracy

Position	2.5m CEP without SA
Velocity	0.1m/sec, without SA
Time	50ns, RMS; < 100ns, 99%

### Power

Built-in rechargeable 1100mAh Li-ion battery and 5V DC input	
Operation Current	< 45mA (Typical)
Operation Time	24hrs, fully charged, in continuous mode

**Charging time** 3.0hrs. (Typical)

### Environmental Characteristics

Operating Temperature	- 10°C to + 60°C
Storage Temperature	- 20°C to + 85°C

### Datum

WGS-84

### Dynamic Conditions

Altitude	<18,000 m (60,000feet)
Velocity	<515 m/s (1000 knots)
Acceleration	<4G
Motional Jerk	20m/sec <sup>3</sup> max.

### Interface

Communication Protocol: Communicate with host platform via Bluetooth (class 2) serial port profile

Bluetooth communication distance 10meters (Typical)

GPS Protocol: Default: NMEA-0183 - GGA, GSA, GSV, RMC

Data bit: 8, stop bit: 1(Default)

### Device Size and Weight

81.5 (L) X 43.4 (W) X 17.0 (H) mm
3.21 (L) X 1.71 (W) X 0.67 (H) inch
62.4g (battery included)

### Accessories

Car charger (12V in, 5V output)
AC adaptor (5.3V output, 500mA)

## 7. Revision History

Revision	Date	Comments
V11.06	24_Nov_2006	First release