

## **IMPORTANT REGULATORY INFORMATION**

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 that is received, including any interference that may cause undesired operation.

### **WARNING:**

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- **Product Name:** Bluetooth GPS Receiver
- **Item No.:** GR29
- **Description:**

The GR29 is a Bluetooth GPS Receiver that can be used independently. Not only does it can transfer data with PDA, or Notebook via Bluetooth, but also it can transfer data through USB cable with those devices without Bluetooth.

GR29 is compact-sized, stylish, and portable product, even can be wore on the key chain. The integrated rechargeable polymer Lithium-ion battery made GR29 sensitive to the weak signal while low power consuming. Three LEDs indicate the Bluetooth status, GPS status, and battery status respectively, enable the running status monitored clearly.



#### 1. Features:

- ✓ Compact size that even key chain portable;
- ✓ High sensitivity, powerful GPS chipset, fast acquisition for 16-channel;
- ✓ Built-in WASS/EGNOS Demodulator
- ✓ Built-in USB driver, that can transfer data via normal USB cable;
- ✓ Support Bluetooth SPP profile
- ✓ Support NMEA0183 v2.3, 9600bps;
- ✓ Built-in stable, high performance polymer lithium ion battery , low power consumer for at least 8 hours operation

#### 2. Specification:

##### 2.1 Spec:

Frequency: 1575.42MHz

Channel: acquisition and track up to 16 satellites signal

Receiver: L1, C/A code

Update rate: 1Hz

Minimum signal tracked: -158dBm

##### 2.2 Positioning Accuracy:

2.5m CEP accuracy

<2m CEP accuracy (DGPS, WAAS or EGNOS)

Velocity: 0.1meter/sec

##### 2.3 Acquisition time:

Hot start: 4 sec.

Warm start: 34 sec.

Cold start: 42 sec.

#### 2.4 Input & output:

Bluetooth protocol: Serial Port Profile

CSR BC04, 2.0

Baud rate: 9600bps

Distance: More than 10 meters (no obstacle)

USB driver full speed USB 2.0 (USB1.0/1.1 Compatible)

NMEA0183 v2.3

#### 2.5 Power support:

Input:4.7~5.2V

Built-in polymer Lithium-ion battery with capacity of 520mA/h for at least 8 hours operation

#### 2.6 Dynamic condition:

Altitude: 18,000 meter max.

Velocity: 515meter/sec. max.

Acceleration: 4G max.

Jerk: 20meter/sec.

#### 2.7 Dimension, Weight:

Dimension: 65 (L) × 28 (W) × 15 (H) mm

Weight: 30g

Operation Temperature: -10°C~+60°C

Store Temperature: -20°C - +60°C

Operation humidity: 5% to 95% no condensing

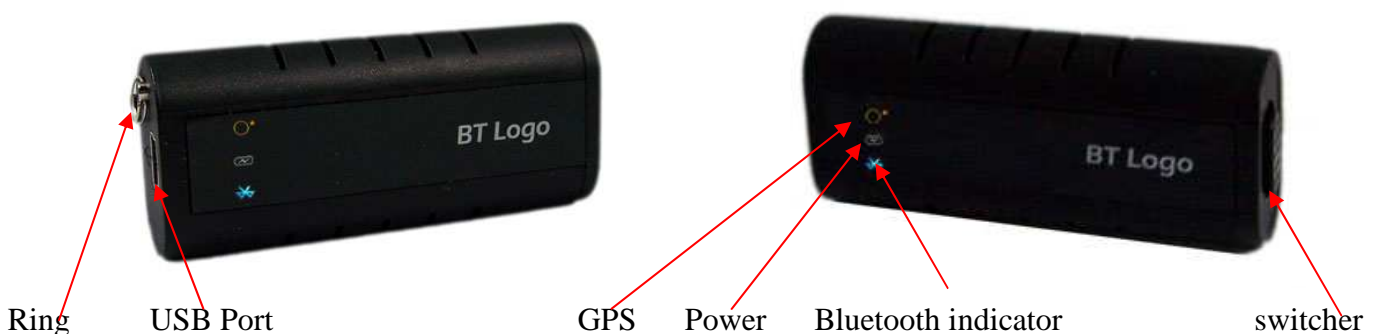
#### 2.8 Other function:

Switch: Mechanical slide switcher




Antenna: Built-in GPS antenna

LED Function: Bluetooth, GPS positioning, Battery status

Picture:



LED indicator:

Symbol	Color	Status		Information
 Bluetooth	Blue	Blink interval	On	Searching bluetooth device
			1/sec	Waiting for data transferring
			1/sec	Connected and start to transfer data
 Power	Red	On		Low power
	Green	On		Charging
	N/A	Off		Working
 GPS	Yellow	On		Positioning
		Off		Positioned

Power switch

- Power on: Yellow LED and blue LED on.
- Power off: Yellow LED and blue LED off.

USB Port

Mini USB 5 Pins female connector.

● **Package contents:**

One GR29 Bluetooth GPS Receiver

One set Mini USB Car Adapter

One Mini USB cable

One driver CD

One user manual



GR29 Bluetooth GPS Receiver

Mini USB cable

Driver CD& User manual

Mini USB Car Adapter

- **User Guide:**

1. Charging:

It's recommended to charge the battery for the first using. When the battery is full, the power LED will be off. It also can be charged with car charger or USB cable.

2. Power on

2.1 Switch on, yellow LED and blue LED on, GPS start to positioning; when it got the position, the yellow LED will start to blink.

2.2 Data transferring via bluetooth: Blue LED on indicates it's searching Bluetooth device. The ID of this product is 'SCBT', it's not necessary to match it with other device, if password required, please type '0000'. After it is connected, the blue LED blink with interval of 1 time/sec indicates data transferring.

2.3 Data transferring via USB: The product will be allocated to a port number automatically when connected to the computer (please install the driver first), which used to communicate with the computer.

3. Driver and Test software

The driver and test software are placed on the attached CD. For the details please see the Readme.txt.