

# **User's Manual of BTGP-38K Bluetooth GPS Receiver**

## **V1.0**

## I Instruction to Product

### 1. Summary

BTGP-38K, a high-tech product combines the advanced Bluetooth technology and GPS technology. Through, Bluetooth technology, you can receive GPS data through intelligent mobile phone, PDA, laptop and desktop for location and navigation.



### 2. Feature

1. Very low electricity cost and work up to maximum 15 hours
2. High-sense, good-performance GPS chip, receiving 65 satellites simultaneously
3. Accord with Bluetooth 2.0 Specification CLASS 2
4. Support Bluetooth serial communication Profile (SPP Profile)
5. Compatible with li-battery and charger of Nokia mobile (e.g.N70)
6. 3 LED indicate statues of Bluetooth, GPS and recharging
7. Support the baud rate 9600bps in NMEA-0183 standard
8. Small-size, humanized design, portable, cute appearance

### **3. Technical Index**

#### **General Index**

Receivable frequency L1, 1575.42MHz

C/A code 1.023MHz

Channel 65

#### **Sensibility**

Search -151dBm

Track -158dBm

#### **Precision**

Location 7m CEP 90%, 3m CEP 50% (SA OFF)

Velocity 0.1m/s

## **Location time**

Hot startup 1s, average

Warm startup 35s, average

Cold startup 40s, average

## **Dynamic condition**

Altitude Max 10 km

Horizontal speed Max 515m/s

Acceleration Max 4g

## **GPS protocol**

NMEA-0183 ASCII protocol

Default NMEA GGA, GSA, GSV and RMC, (VTG, GLL and RMS optional)

9600bps baud rate, 8 data bits, 1 stop bit, no check bit

## **Bluetooth index**

Bluetooth code V2.0+EDR

Emission power Class 2 (4dBm max)

Receiving sensibility -80dBm

Communication distance 10m typical (free space)

Profile Communication Profile Serial Port Profile (SPP)

## **Power consumption**

Working current    about 60mA average

Working voltage    3.7V~4.2V

Chargeable voltage    5.5V

## **Battery**

Recharge time 2.5hrs typical

Working time about 15hr, track after the charging is full

## **Environment**

Working temperature    -40°C to +85°C

Storage temperature    -40°C to +150°C

## **II Hardware Features**

**1. Size:** 72.8(L) x45.8 (W) x18.8 (H) mm

**Wight:** 70g

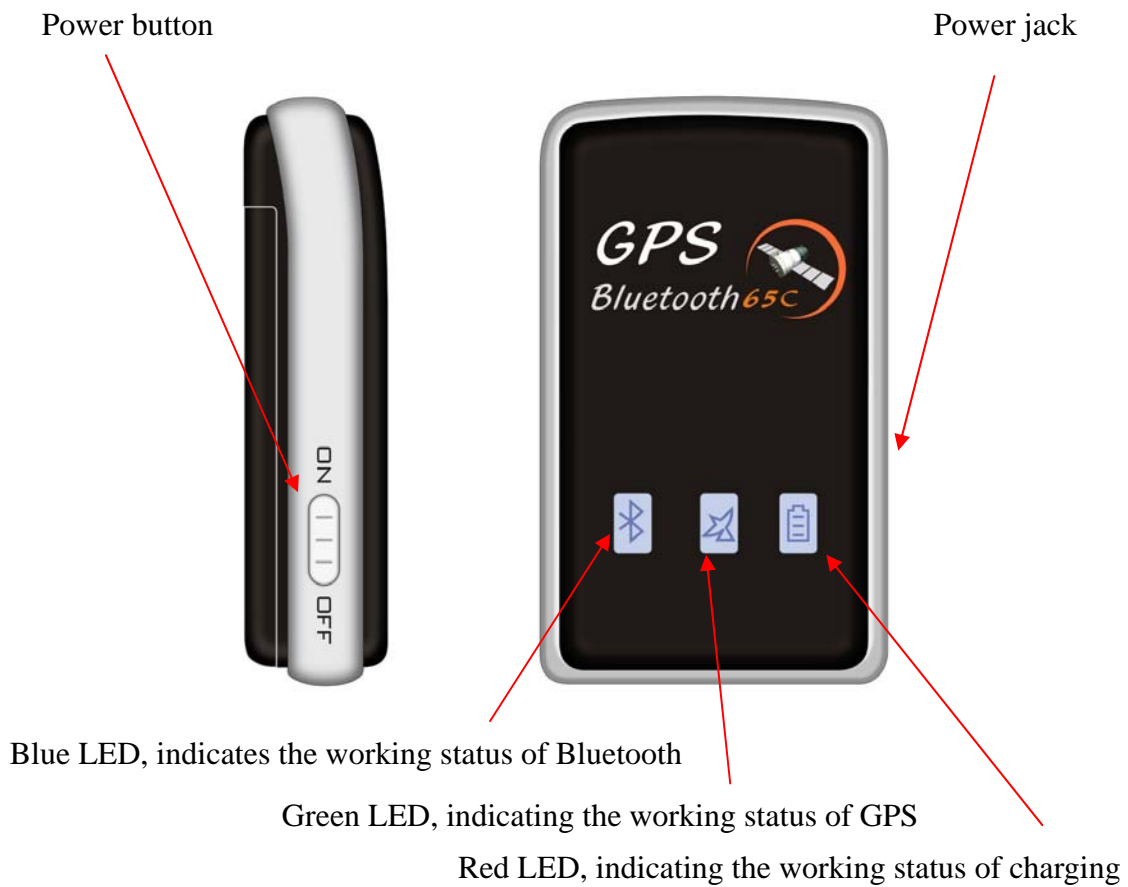
### **2. Packing list**

1. Main unit

1

- |                                  |   |
|----------------------------------|---|
| 2. Chargeable li-battery         | 1 |
| 3. User's manual                 | 1 |
| 4. Home charger (or Car charger) | 1 |

### 3. Description



### 4. LED status

LED	Status	Description
Green LED	Three second a flash	GPS position no fixed

	One second a flash	GPS position fixed
Blue LED	Fast flash indicates	Bluetooth in stand-by mode
	Slow flash indicates	Bluetooth in connection
Red LED	Constant on	Indicates: it is under charging
	Off	Charging is completed

### III Operation Instruction

#### 1. Load battery

Open the cover of battery door, and load the battery in right direction. Close the battery door...

#### 2. Charge

Plug the AC end of the charger into main power supply socket. Plug the DC charger into the hole on the product. Then, the red LED turns on, indicating it is charging. In about 2.5hr, red LED turns off and the charger is completed.

Note: To maximize the lifetime of the battery, please charge it continuously for at least 10 hr for the first time.

#### 3. Set up wireless connection

When power is on, the green LED turns on, indicating the state of location. Blue LED swiftly flashes, indicating that it enters to matching state. Now, you input search command on your Bluetooth device (computer, PDA, mobile or laptop etc). When it is

searched out, select “BTGP-38K” and then input the code”0000”, so that the matching is complete.

#### 4. Test on computer

After the matching is completed, the computer will prompt that there is a serial port. Write down the number of it and open the test software in the CD. Select the said port and set the bit rate at 9600bps. Click “Open” to open the serial port and then it will display the current locating data.

Serial port number, Bit rate, Serial port On/Off      Satellite View

Data

Command

Scatter

Received satellite signal S/N

## **IV Application**

This product can send data relating to current location and movement information to the navigation software of intelligent mobile or PDA through Bluetooth technology and assists the navigation software to navigate and track. For detailed operation, please see the instruction document of navigation software.