

User's Manual of BTGP38 Bluetooth GPS Receiver
V3.0

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I Instruction to Product

1. Summary

BTGP38, 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. Features

- (1) Every low electricity cost and work up to maximum 20 hours
- (2) High-sense, good-performance GPS chip, receiving 16 satellites simultaneously
- (3) Accord with Bluetooth 1.2 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	16

Sensibility

Search	-147dBm
Track	-152dBm

Precision

Location	7m CEP 90% , 3m CEP 50% (SA off)
Speed	0.1 m/s

Location time

Hot startup	12s, average
Warm startup	38s, average
Cold startup	60s, average

Dynamic condition

Altitude max.	10 km
Horizontal speed	515m/s
Acceleration	Max. 4g

GPS protocol

NMEA-0183 ASIC **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	V1.2
Emission power	Class 2 (4dBm max)
Receiving sensibility	-80dBm(Bit error rate less than 0.1%)
Communication distance	10m typical (free space)
Profile Communication Profile	Serial Port Profile (SPP)

Power consumption

Working current	45mA typical
Working voltage	3.7V
Chargeable voltage	5.7V

Battery

Recharge time	2.5hrs typical
Working time	About 20hr, track after the charging is full

Environment

Working temperature	-10 to +60
Storage temperature	-20 to +85

II Hardware Features

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

2. Packing list

1. Main unit 1
2. Chargeable li-battery 1
3. User's manual 1(or 1 CD)
4. Home charger 1
5. Car charger 1



Main unit



Battery



CD of instruction



Charger



Car charger

3. Description

Blue LED, indicates the working status of bluetooth

Green LED, indicating the working status of GPS



Red LED, indicating the working status of charging

Power extension



Switch for power supply, Left for ON, Right for OFF

4 . LED status

LED	Status	Description
Green LED	On	indicates GPS position no fixed
	Fast flash	indicates 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.

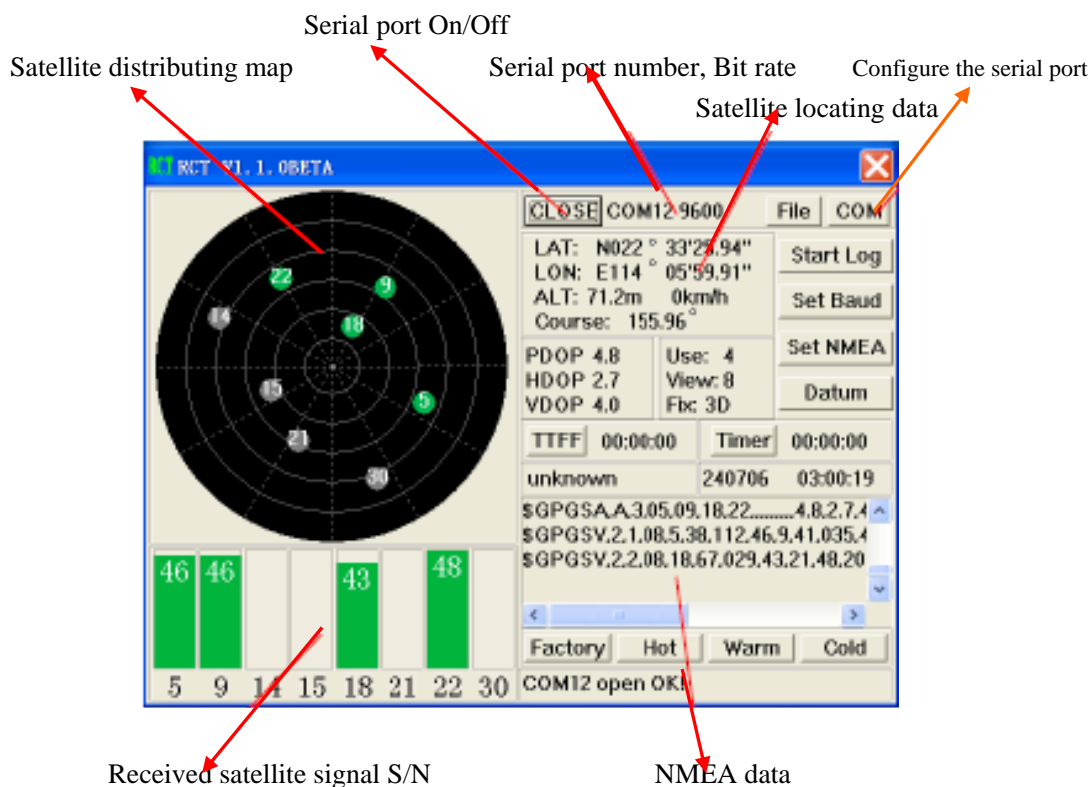
Note: To maximize the lifetime of the battery, please charge it continuously for at least 10 hr for the first time.

3. Set up wireless connection

Power 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 searches out, select "Vsun-GPS" 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.



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.

Note: 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.

Modifications not authorized by the manufacturer may void users authority to operate this device.