

# **CanMore Bluetooth GPS Receiver**

## **GT-750F User Manual**

Version 1.0



061204-03

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# 1.Product Introduction

## 1.1 Overview

### ● **Fast Acquisition high-Sensitivity 44 Channel Bluetooth-GPS Receiver.**

The GT-750F is a single board of Bluetooth-GPS receiver for customers who require easy system integration and minimal development risk.

The GT-750F is optimized for good performance and low cost. Its 44 parallel channels and Venus520 search bins provide short start-up time and fast signal acquisition. Having fast time-to-first-fix and high sensitivity, the GT-750F offers good navigation performance even in urban canyons.

Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy.

The onboard patch antenna provides good signal reception. It provides fast satellite signal acquisition and short startup time. Acquisition sensitivity of  $-155\text{dBm}$  and tracking sensitivity of  $-158\text{dBm}$  offers good navigation performance even in urban canyons having limited sky view.

## 1.2 Features

- Acquire and track 44 satellites simultaneously
- Venus520 simultaneous time-frequency search bins
- Signal detection better than  $-158\text{dBm}$
- Reacquisition sensitivity  $-155\text{dBm}$

- Cold start < 40 seconds at –135dBm
- Hot start < 1sec under open sky
- 5m CEP accuracy
- SBAS (WAAS, EGNOS) support
- Bluetooth version 2.0 compliant
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Charger circuitry and battery socket for N3650 Li-ion battery
- More than 13 hours of operation
- Dimension: 73x44x21 mm

## 1.3 Technology Specification

### 1.3.1 Physical Dimension:

- Bluetooth GPS unit Size: 73.0(W) x 44.0(D) x 21.0(H) (mm)
- Weight: 60g

### 1.3.2 Product Notification

- Operating temperature range -20°C to +60°C
- Storage temperature: -30 °C to +70 °C.
- Battery Storage temperature range -40°C to +60°C
- Humidity range up to 95% no condensing

### 1.3.3 Electrical Characteristics

- Input voltage: + 5.5 ± 0.5VDC.

- backup power: 3V For battery socket Li-ION rechargeable battery (1000 mA)

### 1.3.4 Performance

#### 1.3.4.1 GPS

- Receiver Type 44 parallel channel, L1 C/A code
- Accuracy Position 5m CEP  
Velocity 0.1m/sec
- Startup Time < 1sec hot start  
< 40sec cold start
- Signal Reacquisition 1s
- Sensitivity -145dBm acquisition  
-158dBm tracking
- Update Rate 1Hz standard
- Dynamics 4G (39.2m/sec<sup>2</sup>)
- Operational Limits Altitude < 18,000m or velocity < 515m/s  
(COCOM limit, either may be exceeded but not both)
- Protocol NMEA-0183 V3.01  
GPGLL, GPGSA, GPGSV, GPRMC, GPVTG, GPZDA  
9600 baud, 8, N, 1
- Datum Default WGS-84  
User definable

#### 1.3.4.2 Bluetooth

- SPP compatible, version 2.0 compliant

- class-2 operation, 1.17dBm output level Up to 10m of operation
- Details specifications please refer to appendix D at page 19.

#### **1.3.4.3 Battery**

- battery socket Li-ION rechargeable battery
- Capacity: 740mAh

## **1.4 Application**

- PDAand Cellular Phone Navigation
- Navigation and positioning
- Automotive Vehicle Tracking
- Personal Positioning
- Sporting and Recreation

## **2.Before Start**

### **2.1 Check the Package Content**

Before you start using GT-750F, please check out if your package includes the following tems. If any item isdamaged or



missed, please contact your reseller at once.

- GT-750F Bluetooth GPS receiver
- CarCharger
- User manual CD
- AC Adapter(optional)

## 2.2 Power Switch: Push the power switch is on/off



## 2.3 LED Display



1 2





Battery and charger status

3

Bluetooth status

4

GPS status

1		Yellow LED indicate slow power
2		Red LED indicates power is in charging
3		<ul style="list-style-type: none"> <li>● Flashing quickly(every onec for 2 second)-Position is fixed.</li> <li>● Flashing slowly(every onec for 3 second)-device is on but position is not fixed.</li> </ul>
4		<ul style="list-style-type: none"> <li>● Flashing quickly(every onec for 2 second)-Position is fixed.</li> <li>● Flashing slowly(every onec for 3 second)-device is on but position is not fixed.</li> </ul>

## 2.4 Hardware Features

### 2.4.1. Power Switch

Power ON/Power OFF

### 2.4.2. Power Jack

The power jack allows you to connect to either a DC(included) or AC power charger to recharge the internal battery.

### 2.4.3. Bluetooth Status LED (Blue)

Flashing quickly(every onec for 2 second)-Bluetooth is on and ready to transmit.

Flashing slowly(every onec for 3 second)-Bluetooth are transmitting data.

### 2.4.4. GPS Status LED (Orange)

Flashing quickly(every onec for 2 second)-Position is fixed.

Flashing slowly(every onec for 3 second)-device is on but position is not fixed.

#### **2.4.5.Battery Status LED (Red/Yellow)**

None-Battery has adequate power supply.

Yellow-Power is low. Charging immediately is required.

Red-Connected to power charger, charging.

LED off –Battery is fully charged.

## **2.5.Getting Started**

### **2.5.1. STEP1:Charge the Battery**

Before you use GT-750F, the battery must be charged for at least 2 hours. Plug car charger into power jack and cigar-lighter separately when is in charging, the Red LED will be lighted up. When the battery is fully charged, the Red LED will be turned off. Un plug car charger from power jack and cigar-lighter separatel.

### **2.5.2. STEP2:Turn on Receiver and Wait for GPS Fix**

If the position has not been fixed yet, the Orange LED will be flashing slowly(every onec for 3 second). If the position has been fixed, the Orange LED will be flashing slowly(every onec for 3 second). You are ready to connect to your Bluetooth-enabled mobile device andyou're your GPS application.

### **2.5.3. STEP3:Connect to Bluetooth-Enabled Devices**

From your Bluetooth-enabled handheld device, execute Bluetooth application software to search GT-750F and then connect it to your device. If the connection between your device and GT-750F is successful, the Blue LED Flashing slowly(every onec for 3 second)-Bluetooth are transmitting data.

**Note:Type in pin code=8888 during configuration.**

### **2.5.4. STEP4:Connect to your Navigation Software**

- Load your GPS mapping or routing software, along with the corresponding maps of the areas that you are occupyingor plan to travel .
- Start the application. Make sure the application is set for the COM port that your Bluetooth-enabled mobile device will use for serial communication. Now you should be ready to use your GPS application as directed by the user documentation that came with the software. More configurations may be necessary.

## **2.6 How to replace Lithium-ionBattery**

- Open the bolt on the bottom cover of GT-750F and take the Li-ion battery out.
- Place new Li-ion battery into the room of GT-750F
- The GT-750F Li-ion battery is replaceable and rechargeable.
- The GT-750F Li-ion battery can last more than 13 hours in continuous operation mode.

## **2.7 How to use Car Charger to charge your handheld device**

- Connect car charger into your adapter connector of GT-750F.

- Plug adapter connector into handheld device connector and plug car charger into cigar-lighter.

### 3. Bluetooth Connection

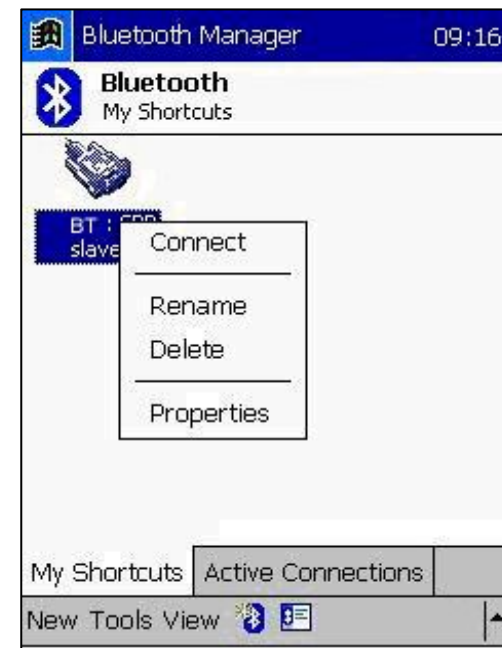
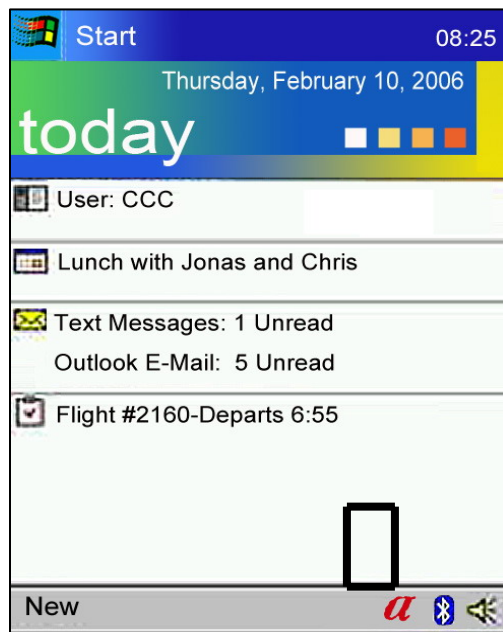
Please follow below instructions step by step: **The pass word is “0000”**

#### 3.1 Turn on the Device

Turn the power switch on. The Bluetooth Status LEDs(Blue LED) and GPS Status LED (Orange LED) will immediately light up. When the Flashing quickly(every onec for 2 second)-Bluetooth is on and ready to transmit. The Orange LED is flashing quickly(every onec for 2 second),means Position is fixed.

#### 3.2 Browse Device:

- Firstly, you need to find the device with which you want to establish connection.
- Open “Bluetooth Manager” on your pocket PC.
- Click “New”
- Click “Connect”
- Search Bluetooth device “Rikaline 6033”
- Select “Explore a Bluetooth device” ,to find the bluetooth device
- Click”Next” Double click “Rikaline”



### 3.3 Browse Services:

- Double click the device with which you want to establish SPP connection to browse its service
- Connect to SPP Slave Select SPP slave Click "Next" Click "Finish"
- Finish Bluetooth Manager Setup
- Tap and Hold "Rikaline: SPP slave"
- Click "Connect"
- Finish Bluetooth setup



### 3.4 Application:

Now you can use any Navigation system through Bluetooth SPP Profile.



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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

ATTENTION

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE  
PAR UNE BATTERIE DE TYPE INCORRECT  
METTRE AU REBUT LES BATTERIES USAGEES  
CONFORMEMENT AUX INSTRUCTIONS

FCC RF Radiation Exposure Statement:

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