

MBT-1000

BT GPS Receiver

Quick Guide



Congratulations on your purchase of the MBT-1000. With the latest in GPS technology, MBT-1000 will enhance your overall navigation experience.

The MBT-1000 is equipped with the latest generation MTK digital processor specially designed for fast and accurate fix on GPS signals. This latest round of technology advancements give the users an “instant on” feel, and the experience in navigation becomes more natural.

Before starting using the device , please refer to the following for content checking.

Contents packaged with your MBT-1000 purchase:

1. BT GPS Receiver
2. Car adaptor
3. USB cable for charge
4. AC adaptor (optional)

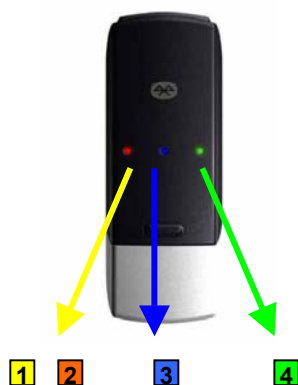
Power Button

Right View



LED Display

Front View



1	Blinking Yellow LED indicates Battery Low
2	Glowing Orange LED indicates power is in charging
3	Glowing Blue LED indicates Bluetooth is connected Blinking Blue LED indicates Bluetooth is not fixed
4	Glowing Green LED indicates position is fixed Blinking Green LED indicates position not fixed

Getting Started

To make MBT-1000 work with your devices, a simple pairing step is required for the first time. (Please follow the pairing instruction for Blue Tooth from your PDA or PC manufacturer.) To get MBT-1000 into pairing mode, all you need to do is simply switch on the power button.



Once MBT-1000 is properly set up and connected to your PDA or PC, please refer to your navigation software guidebook for instruction on navigation operation. MBT-1000 works with all NMEA enabled navigation software.

Tips

1. Place your MBT-1000 below the windshield for car navigation.
2. Cars that are equipped with heat dissipation films for the windshield and windows will degrade the GPS performance.
3. For the most accurate position fix results and quickest acquisition time, please make sure that your MBT-1000 is not in motion but stationary and in open spaces.
4. The high sensitivity and minimalist design make MBT-1000 an ideal candidate for personal navigator. With the integrated strap loop, users can easily wear the unit.

RoyalTek

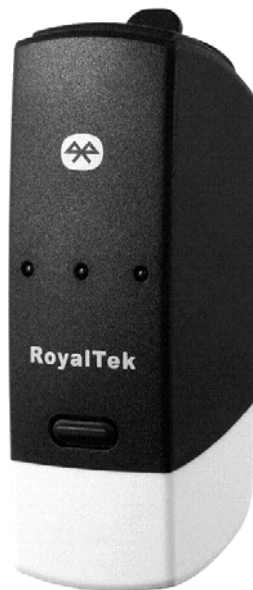
Bluetooth GPS

Datalog Receiver

MBT-1100

User Manual

V1.0



Published on July, 2007 by RoyalTek Company Ltd.
Design and specification are subject to change without notice.

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1. Product Introduction

1.1 Overview

The MBT-1100 is equipped with the latest GPS solution for fast and accurate fix on GPS signals. This latest round of technology advancements give the users an “instant on” feel, and the experience in navigation becomes more natural. The dimension of 69.5(L) x 23(W) x 20(H) and weight only 38g, making it an ideal solution to carry everywhere.

1.2 Main Features

- NMEA0183 compliant protocol
- Extreme fast TTFF at low signal level.
- Adopt TCXO as GPS core clock source
- Industrial Standard
- Selectable Baud Rate
- WAAS/ ENGOS is supported

1.3 Product Notification

- Charger operating temperature range 0 °C to +50 °C
- Discharger operating temperature range -20 °C to +60 °C
- Battery Storage temperature range -20 °C to +60 °C
- 10hr at full charge continuous operation mode.
- Humidity range up to 95% no condensing

1.4 Application

- PDA and Cellular Phone Navigation
- Consumer wireless GPS
- Automotive Vehicle Tracking
- Personal Positioning
- Sporting and Recreation

2. Before Start

2.1 Check the Package Content

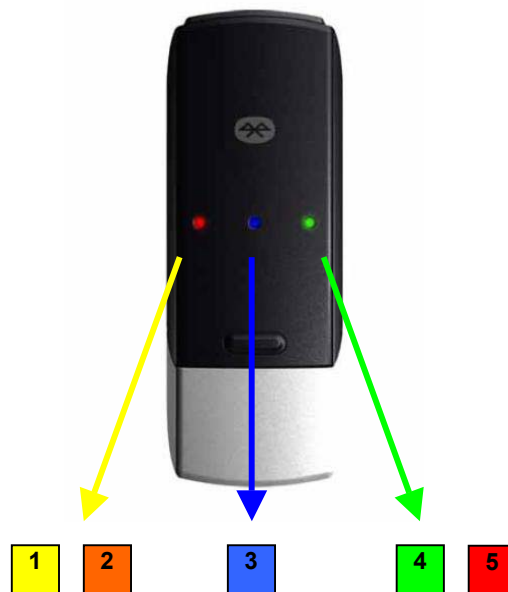
Before you start using *MBT-1100*, please check out if your package includes the following items. If any item is damaged or missed, please contact your reseller at once.

- MBT-1100 Bluetooth GPS datalog receiver
- Car Charger
- CD
- AC Adapter (optional)
- USB cable
- PU GRIP PAD

2.2 Power Button (Right View)



2.3 LED Display



1	Yellow LED indicates power is in charging
2	Blinking Amber LED indicates Battery Low
3	Glowing Blue LED indicates Bluetooth is connected Blinking Blue LED indicates Bluetooth is not fixed
4	Glowing Green LED indicates position is fixed Blinking Green LED indicates position not fixed
5	Glowing RED LED indicates Memory Full Erased memory data, RED LED Blinking

2.4 Hardware Features

2.4.1. Power Button

Power ON / Power OFF

2.4.2. Bluetooth Status LED (Blue)

Glowing - Bluetooth is on and ready to transmit.

2.4.3. GPS Status LED (Green)

Glowing - Position is fixed.

Steady light – Device is on but position is not fixed.

2.4.4. Memory Status LED (Red)

Glowing – Memory is full.

RED LED blinking when erasing memory data.

2.4.5. Battery Status LED (Amber/Yellow)

None - Battery has adequate power supply.

Amber - Power is low. Charging immediately is required.

Yellow - Connected to power charger, charging.

LED off - Battery is fully charged.

2.5. Getting Started

2.5.1. STEP 1: Turn on Receiver and Wait for GPS Fix

If the position has not been fixed yet, the Green LED will be still. If the position has been fixed, the Green LED will be Glowing.

You are ready to connect to your Bluetooth-enabled mobile device and use your GPS application.

2.5.2. STEP 2: Connect to Bluetooth-Enabled Devices

From your Bluetooth-enabled handheld device, execute Bluetooth application software to search *MBT-1100* and then connect it to your device. If the connection between your device and *MBT-1100* is successful, the Blue LED will be Glowing.

Note: Type in pin code=0000 during configuration.

2.5.3. STEP 3: Connect to your Navigation Software

- Load your GPS mapping or routing software, along with the corresponding maps of the areas that you are occupying or plan to travel to.
- 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.
- Refer to the following software application user manual to set

up the parameters of the device via Bluetooth radio.

2.6 How to use Car Charger to charge your handheld device

- Connect car charger into your adapter connector of *MBT-1100*.
- Plug adapter connector into handheld device connector and plug car charger into cigar-lighter.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE 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 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.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's 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 interference received, including interference that may cause undesired operation ."

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Revision History

Data	Revision	Note
Jan, 2008	V1.0	Final Release

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