

Bluetooth GPS Receiver

M-1000

- **Item No.:** M-1000
- **Product Name:** Bluetooth GPS Receiver
- **Description:**

The HOLUX **M-1000** Bluetooth GPS Receiver provides a easy-to-use trip guiding tool. You are able to enjoy a brand new experience in driving with Bluetooth™ technology of GPS Receiver, you could have the GPS connection without a cable, it's more convenient and flexible. Enjoy the GPS's life!



The **M-1000** high performance Bluetooth™ GPS Receiver which featured with:

1. Dual interface (Bluetooth + GPS-mouse by HOLUX data cable)
2. Compatible with Bluetooth™ Serial Port Profile (SPP) completely
3. Built-in rechargeable Lithium-ion battery without external power supply

Applications :

- * Vehicle tracing & Location base services
- * PDA/Notebook navigation
- * Car navigation
- * Marine navigation

- **Key Feature:**

1. Built in MTK Low power consumption GPS chipset.
2. 32 parallel satellite-searching channels for fast acquisition and reacquisition.
3. Superior sensitivity up to -159 dBm.
4. Built-in WAAS/EGNOS/MSAS Demodulator without any additional hardware.
5. Compatible with Bluetooth Serial Port Profile (SPP) completely.
6. Low power consumption. Built-in rechargeable and changeable Lithium-ion battery, the working time can last 23 hours maximum.
7. Provide expand terminal contact to other system without Bluetooth device.
8. Support NMEA0183 V 3.01 data protocol
9. 3 color-LEDs indicate to show the status of device.
10. FLASH based program memory. New software revisions upgradeable through serial interface.
11. Small, sleek, and lightweight design easily fits in your hand.

12. Over-Temperature protection
13. Enhanced algorithms -SnapLock and SnapStart provide superior navigation, performance in urban, canyon and foliage environments.
14. For Car navigation, Marine navigation, Fleet management, AVL, Personal navigation, Tracking System, and Mapping device application.

● Specification

Item	Description
Specification	<ul style="list-style-type: none"> • Search up to 32 satellites • Receiver : L1, 1575.42 MHz • C/A code:1.023 MHz • Update rate : 1 HZ. • Antenna type : Built in patch antenna • Minimum signal tracked : -159dBm • Dimension : 65 × 43 × 17.6 mm. • Weight : < 53g. • On/Off switch : slide switcher • Lithium-ion battery lasts for 23 hours of use maximum • Operation temperature : -10 °C to + 60 °C • Store temperature : -20 °C to + 60 °C(With Lithium-ion battery) • Store temperature : -30 °C to + 80 °C (Without Lithium-ion battery) • Operation humidity : 5% to 95% no condensing
Position	<p>◆ Non DGPS (Differential GPS) :</p> <ul style="list-style-type: none"> • Position : 3.0 m CEP without SA • Velocity : 0.1m. / sec² . • Time : 0.1 microsecond. sync GPS time <p>◆ DGPS(RTCM/EGNOS/WAAS/MSAS) :</p> <ul style="list-style-type: none"> • Position : < 2.2 m., horizontal 95 % of time < 5 m., vertical 95 % of time <p>*Above data follows. MTK GPS chipset specification.</p>
Acquisition Time	<ul style="list-style-type: none"> • Reacquisition < 0.1 sec. Average • Hot start 1 sec. • Warm start 33 sec. • Cold start 36 sec. <p>*Above data follows MTK GPS chipset specification.</p>
Protocol & Interface	<p>◆ Compatible with Bluetooth devices with Serial Port Profile (SPP)</p> <ul style="list-style-type: none"> • Bluetooth™ version 1.2 compliant • Bluetooth™ Class 2 operation (up to 10 meters range in open space) • Frequency : 2.400 to 2.480 GHz • Modulation: FHSS / GFSK • RF channels: 79 • Input sensitivity: -85dBm • Output level: +2dBm

◆**Output terminal: Mini-USB (CMOS Level)**

• **NMEA protocol output : V 3.01**

Baud rate : 38400 bps

Data bit : 8

Parity : N

Stop bit : 1

• **Output format :**

Standard : GPGGA (1time/1 sec), GPGSA (1 time/5 sec.),
GPGSV (1time /5 sec.), GPRMC (1time /1 sec.),
GPVTG (1 time/1 sec).

Optional : GLL, or MTK NMEA Command.

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- Dynamic Conditions**
- **Altitude** :Max 18,000 m (60,000 feet)
 - **Velocity** : Max 515 m./sec (1000 knots)
 - **Acceleration** : Max 4G
 - **Jerk** : 20 m/ second³, max.

3 Led Function

Bluetooth , navigation update and battery/charger status Indication

● **Package Contents**

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|----|-------------------------------|-------|
| 1. | M-1000 Bluetooth GPS receiver | 1 Set |
| 2. | Battery | 1 Set |
| 3. | Car Cigarette adapter | 1 Set |
| 4. | User guide and Driver CD | 1 Pcs |
| 5. | M-1000 Quickguide | 1 Pcs |
| 6. | Warranty card | 1 Pcs |

Option

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|----|----------------------|-------|
| 1. | Travel power supply | 1 Set |
| 2. | HOLUX USB data cable | 1 Set |