

**Brief: Bluetooth based GPS receiver with on-line communication link to PC/PDA and with in-built Data Log feature. This indigenously designed unit is handy and contains rechargeable Li-Ion battery and Power charger. Useful as a Navigation and Tracking device. Optional PC software for track & trace using local maps. Can be upgraded to AVL and on-line Vehicle Tracking system. Calculate speed and cumulative distance travelled.**

**Protocol: NMEA0183 v2.2 over Bluetooth interface with WGS-84**

**Applications: Fleet Management & Logistics Control, GPS based Navigation.**

### **1a. Product Description:**

The Bluetooth GPS Receiver is a high performance GPS receiver based on Analog devices ADSP GPS chipset. The antenna is capable of acquiring satellite signals even in challenging situations such as under foliage or between tall buildings. It takes advantage of the Bluetooth wireless technology to offer hassle free installation on a Bluetooth enabled PDA, laptop and even smart phone. The compact, light weight design makes it a perfect travel companion.

#### **Features**

- Compact and sleek design
- Based on Analog Devices ADSP GPS chip set
- Low power consumption: 90mA @ 3.3V (average)
- High-capacity rechargeable Li-Ion battery
- 12 Channels Data Acquisition
- External high sensitivity antenna
- LEDs indicate Bluetooth link & and battery status
- On/Off push switch
- Slip-resistant pad

### **1b. Product Specifications:**

#### **Antenna**

- Receiver Frequency: 1575.42 MHz (L1 band) C/A code
- Antenna Type: External Active Antenna

#### **GPS Receiver**

- Technology: ADSP GPS chipset
- Satellite Measure Used: 12-channel parallel automatic selection
- Supports NMEA-0183 (V2.21)
- Tracking Sensitivity: -152 dBm
- Operating Temperature: -20C to 55 deg C
- Battery Life: Approx. 10 hours. Higher capacity on request.

**Time to First Fix (TTFF)**

- Hot Start: 2 second typical
- Warm Start: 33 seconds typical
- Cold Start: 40 seconds typical

**Bluetooth Link**

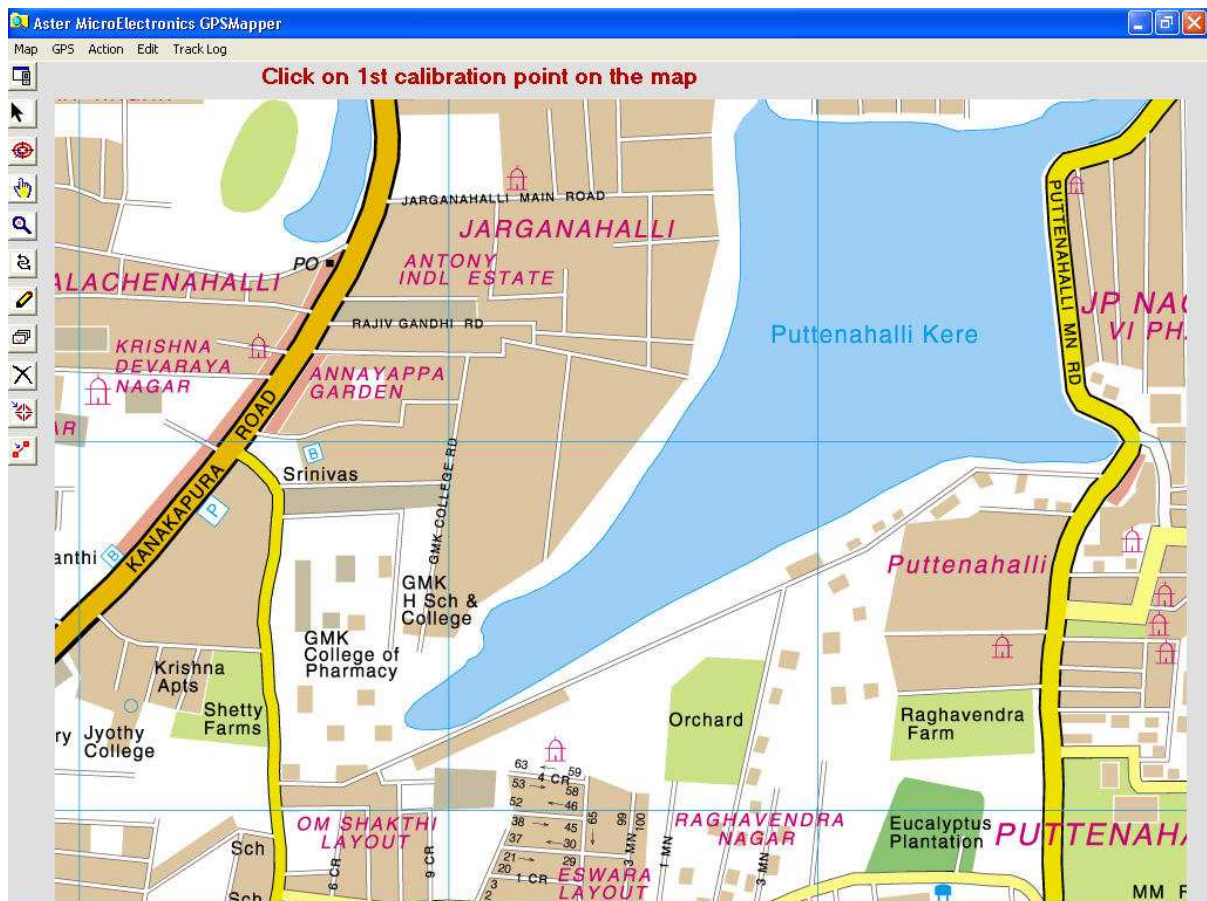
- Works with any Bluetooth enabled device
- Bluetooth V1.1 certified with a Class 1 Bluetooth radio. Reading distance > 300 ft.

**Physical Characteristics**

- Dimensions: 120 x 60 x 28mm
- Weight: 340g with battery

**1c. Aster GPSMapper: Moving Map Software (Optional)**

- Use local map for location positioning (Maps not supplied)
- Designed for use with AsterMicro AVL and Portable Bluetooth GPS Module (BluezGPS)
- Maps can be edited. Draw icons, lines, ellipses & rectangle shapes
- Contains Calibration facility for maps
- With online tracking & file logging feature



Screen Capture showing Experimental Test Results

## 2. Software Development Kit:

The Bluetooth GPS Receiver is fully controllable via VB6 command set available as source code for PC platform.

The command set includes:

- Set Bluetooth parameters
- Start / Stop GPS data inputs
- Set all NMEA sentence receive timings
- Parse the sentences
- Store in MS-Access database
- Query database and retrieve specific values
- Generate log file at specific timings

The Standard SDK package includes:

- Aster BluezGPS hardware unit with Li-Ion battery
- External Hi-gain Antenna
- VB6 APIs source code with examples and manuals on CD
- Bluetooth Dongle for PC connection
- USB cable (3 feet long) for connecting Dongle to PC or USB Hub
- Bluetooth Installation CD with Ref manuals
- Power Charger (230VAC Mains)

## 3. Product Pricing:

Please contact [sales@astermicro.com](mailto:sales@astermicro.com) for best pricing.