



# JBGPS15

## GPS Receiver with Bluetooth Connectivity

The JBGPS15 Receiver with Bluetooth combines proven wireless technologies that allows you to receive positioning data and connect to mobile computing devices wirelessly. The JBGPS15 provides high position accuracy and has reliable tracking capabilities. The ultra low power design gives you up to 22 hours of continuous usage and eliminates constant recharging between uses. With optional waterproof case, you can put it on the roof of a vehicle that boosts your reception capabilities when driving through congested urban. It's easy to connect the GPS receiver to your mobile devices, such as pocket PCs, PDAs and mobile phones using Bluetooth wireless connectivity. A few simple steps will have you connected and navigating in minutes.

### Key Benefits

- Compact design easy to carry
- Light Weight
- Ultra low power up to 26 hours after fully charged (930mA Li-ion Battery)
- Integrated GPS receiver, high gain antenna and Bluetooth transceiver
- Power consumption: 33mA@3.6V(typ.)

### Applications

- Automotive
- Fleet management/Asset tracking
- Personal/Portable Navigation (PDA, Pocket PC etc.)
- Location Based Services enabled devices
- Sports and Recreation
- Geographic Surveying

### Specification:

#### General

GPS Chip	NEMERIX GPS Module
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	16 CH all in view tracking
Antenna (Internal)	Built-in low noise antenna
	External Antenna Port Active MMCX Antenna



**Sensitivity**

To – 152 dBm Tracking, Superior Urban Canyon Performance

**Acquisition Rate**

Cold Start 45 sec, average  
 Warm Start 38 sec, average  
 Hot Start 6 sec, average  
 Reacquisition 1 sec

**Accuracy**

Position 5m CEP (50%), 9m (90%)  
 Velocity 0.1m/sec, without SA  
 Time ±100ns synchronized to GPS time

**Power**

Built-in rechargeable 930mAh Li-ion battery and 5 V DC input  
 Operation Current 35mA (Typical)  
 Operation Time 26hrs, after fully charged, in continuous mode  
 Charging time 2.5hrs. (Typical)

**Environmental**

Operating Temperature - 20 °C to + 60 °C  
 Relative Humidity 5% to 90% non-condensing

**Datum**

WGS-84 (or by demanded)

**Dynamic Conditions**

Altitude 10,000m Max  
 Velocity Hor.300km/hour;  
 Ver.36km/hour Max.

Acceleration 2g Max

Motional Jerk 4 m/sec

**Interface**

Communication Protocol:  
 Communicate with host platform via Bluetooth (2) serial port profile  
 Bluetooth communication distance 10meters(Typical)

GPS Protocol Power Default: NMEA-0183 (V3.01) – GGA(1), GSA(3), GSV(3), RMC(1),VTG(1), band rate 38400bps

Data bit : 8, stop bit : 1(Default\*)

**Device Size**

81 (L) X 44 (W) X20 (H) mm  
 3.2(L) X 1.75 (W) X 0.79 (H) inch

**Accessories**

Car charger (12V in, 5V output)  
 AC adaptor (5.3V output, 500mA)

\*(1):1sec output 1msg,  
 (3): 3sec output 1msg

Ordering information

MODEL	DESCRIPTION
JBGPS15	GPS Receiver with Bluetooth Connectivity

