

# GPS Bluetooth Receiver



Bluetooth



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## GPS Bluetooth

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### High Sensitivity GPS Bluetooth Receiver

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#### GENERAL DESCRIPTION

The Bluetooth GPS receiver, a total solution of GPS Bluetooth wireless technology, acquires 32 satellites, provides unbelievable positioning sensitivity and transmitting ability to an easy position-fix from urban or canyon area. It allows from 13 hours continuous use to stand-by time up to one week with a single battery charge. This Bluetooth GPS receiver works to all Bluetooth smart phones, laptop, PDA regardless of brand in an operating range of more than 10 meters. The high performance Bluetooth GPS receiver is an ideal receiver to be used in any strict weather condition, so to easily find your way.

#### APPLICATIONS

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

#### KEY PRODUCT FEATURES

- Approx. 45000 effective correlators for fast TTFF and high sensitivity acquisition
- Acquires 32 satellites
- Superior tracking capability: -157dBm tracking
- Capable of in-door use: <20m (RMS)
- NMEA-0183 V2.2 compatible
- Data rate: 9600/38400bps
- Ultra low power consumption: 13 hours continuous use to stand-by time up to one week by 1100mAh battery
- Time to full recharge: within 3 hours
- 3 LEDS display all GPS, Bluetooth and power status
- Turn off automatically if no Bluetooth connection in 10 minutes
- Size: 81.0 (L) X 43.0 (W) X 17.6 (H) mm
- Weight: 70g (battery included)
- Non-slip back pad for a secure placement
- Optional external MMCX antenna
- Car charger, adaptor, and CD driver are included

# GPS Bluetooth Receiver

*Product Brief*  
GPS Bluetooth

## SPECIFICATIONS

### GPS Features

Chipset	RFMD
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	Adaptive, 8 – 32 SVs (best 8 used in solution)
Antenna (Internal)	Built-in low noise antenna
	External Active MMCX Antenna

### Sensitivity

To – 157dBm Tracking, Superior Urban Canyon Performance

### Time to First Fix (TTFF)

Cold Start	43 sec, average
Warm Start	25 sec, average
Hot Start	4 sec, average
Reacquisition	< 3sec
Update rate	1 sec

### Accuracy

Position	Open sky: <5m (RMS) In door: <20m (RMS)
Velocity	0.1m/sec, without SA
Time	±100ns synchronized to GPS time

### Power

Built-in rechargeable 1100mAh Li-ion battery and 5V DC input	
Operation Current	<80mA (Typical)
Operation Time	13hrs, fully charged, in continuous mode

**Charging time** 3.0hrs. (Typical)

### Environmental Characteristics

Operating Temperature	- 20°C to + 60°C
Storage Temperature	- 50°C to + 100°C

### Datum

WGS-84 (or by demanded)

### Dynamic Conditions

Altitude	<18,000m
Velocity	<515m/s
Acceleration	<1G
Motional Jerk	4 m/sec

### Interface

Communication Protocol: Communicate with host platform via Bluetooth (class 2) serial port profile

Bluetooth communication distance 10meters (Typical)

GPS Protocol: Default: NMEA-0183 V2.2 - GGA, GSA, GSV,

GLL, RMC, VTG, Baud rate 9600/38400 bps,

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

### Device Size and Weight

81.0 (L) X 43.0 (W) X 17.6 (H) mm
3.19 (L) X 1.69 (W) X 0.69 (H) inch
70g (battery included)

### Accessories

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