



# Bluetooth GPS Receiver/Data Logger

The latest version of LinksPoint's industry leading Bluetooth GPS receiver features extended battery life (up to 10 hours), with interchangeable battery and increased memory (1MB). It can interface with any Bluetooth-enabled mobile device to provide GPS data to applications.

LinksPoint's Bluetooth GPS receiver is unique in the marketplace in that it is the only Bluetooth GPS device that offers simultaneous use of real-time GPS reception and data logging. Other devices can be configured for one or the other. This allows the device to send GPS points in real-time to the handheld computer when it is in the vehicle and then automatically switch to data logging when the driver leaves the vehicle.

The LinksPoint Bluetooth GPS receiver also includes exclusive firmware to support LinksPoint's "Dynamic Waypoint Density" data logging triggers, which can substantially reduce extraneous GPS points and data storage requirements. The GlobalPoint Bluetooth GPS offers real-time correction, through the use of the Wide Area Augmentation System (WAAS) or EGNOS. The receiver comes with a built-in, rechargeable battery that can be "hot-swapped."

## Industry Leading GPS Performance

- 12 Channel GPS Receiver with all-in-view satellite tracking.
- Bluetooth wireless interface for device connectivity.
- **Exclusive:** Dual-mode receiver/data logger functionality.
- Signal acquisition using 1920 time/freq. search channels.
- Supports WAAS and EGNOS.
- Multipath-mitigation hardware.
- Cold Start under 80 seconds.
- Hot Start under 10 seconds.



## Chipset Architecture

The LinksPoint GPS attachment uses the SiRFstarIIe/LP chip set. This chip set uses a 50MHz ARM7 CPU, which has ample throughput to support extensive user application software and peripherals. The internal satellite signal tracking engine provides highly accurate GPS measurements and differential corrections. This chip set architecture also offers an acquisition accelerator, differential GPS processor, multipath mitigation hardware and satellite-tracking engine. This chip set delivers powerful GPS performance, accuracy, computing power and flexibility.



## Technical Specifications

- CRUX II BTGPS Receiver with Integrated Bluetooth<sup>TM</sup>
- GPS Chipset: SiRF StarIIeLP

### General:

- Frequency: L1, 1,575.42 MHz
- C/A: 1.023 MHz chip rate
- DGPS: WAAS/EGNOS
- System Back Up: Built-in Lithium-Ion rechargeable battery
- Antenna Type: Built-in Antenna (external antenna optional)
- Datum: WGS-84 (or by demanded)
- Acquisition Rate: Open Sky, Stationary
- Reacquisition: 0.1 sec., average
- Cold Start: < 80 sec., average
- Warm Start: < 45 sec., average
- Hot Start: < 10 sec., average

### Interface:

- Connection: Communicate with Host Platform via Bluetooth (Class2) Serial Profile
- Protocol: Default: NMEA-0183 (V2.20)- GGA(1), GSA(1), GSV(5), RMC(1) (n); n is the update interval in seconds
- Programmable: additional NMEA- VTG, GLL / SiRF Binary
- Power: User replaceable rechargeable battery and 5V DC input charging circuit
- Operation Time: 10 hour minimum with fully charged 1000mAh Lithium-Ion battery in continuous mode; programmable for greater than 10 hours depending on duty-cycle setting in trickle power mode
- Device Size: 50(L) x 9-(W) x 21(H) mm
- Weight: 78 grams

### Accuracy:

GlobalPoint GPS receivers offer typical accuracies of 3-5 meters uncorrected, and 3 meters or better with WAAS correction.\*

### Dynamic Conditions:

- Altitude: <18,000 meter
- Velocity: < 515 meter/second
- Acceleration: < 4g

### Environmental:

- Operating Temperature: -20°C to +60°C
- Relative Humidity: 5% to 95%, non-condensing

For more information on LinksPoint's Bluetooth GPS receiver, contact us at **203-853-4600** or email us at **sales@linkspoint.com**.

\* Accuracy subject to degradation based on environmental and positional conditions. Rated accuracy provides 95% Circle Error Probability (CEP) position accuracies of <5 meters with WAAS correction and <10 meters uncorrected.