
OrbitGPS User Guide

Bluetooth GPS Receiver/Data Logger

Part Number: G2020



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Introduction

This User Guide provides information OrbitGPS's Bluetooth GPS receiver/data logger.

OrbitGPS part number: G2020



The Bluetooth GPS receiver/data logger collects GPS satellite data and communicates information to mobile computer using Bluetooth. The data logger feature allows GPS travel data to be collected and stored locally for later upload over Bluetooth. This GPS receiver has a user-replaceable internal battery that allows it to be used as a stand-alone receiver. It can also be mounted in a vehicle with the optional DC power cable..

OrbitGPS's Bluetooth GPS receiver/data logger outputs GPS information as industry standard NMEA sentences which are compatible with most GPS software applications. It can also be configured to output GPS information in the SiRF Binary format.

OrbitGPS GPS receivers offer typical accuracies of 3-5 meters uncorrected, and 3 meters or better with Wide Area Augmentation System (WAAS) correction.¹ They are tested to comply with FCC and CE standards.

Note: Screens and windows pictured in this User Guide are samples and may vary.

Basic Guidelines

Safety

Read this User Guide and these basic guidelines comprehensively. Breaching the regulations and rules may be dangerous or illegal. Road safety is the first priority; do not handle or operate the Bluetooth GPS receiver/data logger while driving. Keep the GPS receiver away from high temperatures and fire. (See more details in the "Warning" section of this User Guide.)

¹ *Accuracy is 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.

Proper Handling

Operating the GPS receiver requires a clear and unobstructed view of sky with the top of the device pointing upward to the sky. Do not bend the connector or otherwise modify the charger or the Bluetooth GPS receiver/data logger.

First Time Operation

A longer than normal time-to-first-fix of position may result the first time you use the Bluetooth GPS receiver/data logger. Follow this user guide and consult the instructions of the host mobile computer and GPS application software.

Interference

GPS receivers may receive interference near cellular base-station and when in close proximity to mobile phone antennas. This interference may affect positioning and time-to-fix performance.

Connector & Jack

The Bluetooth GPS receiver/data logger has one external antenna (port) connector, and one DC power jack. Caution and care must be exercised when handling these parts. Bending or breaking these parts will severely degrade positioning performance and damage the receiver. This will void your warranty.

Accessories

Use only manufacturer approved accessories with the Bluetooth GPS receiver/data logger.

Service

There are no user-serviceable parts inside the receiver. See the “Service Information” section of this guide for service contacts.

Safety

The Bluetooth GPS receiver/data logger contains a Lithium-ion battery inside. Leaving the Bluetooth GPS receiver/data logger in hot or cold conditions, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery inside. Always try to keep the GPS receiver between +15C (+59F) and +25C(+77F). A GPS receiver with a hot or cold battery may temporarily not work, even when the battery is fully charged. The performance of Lithium-ion batteries is particularly limited in temperatures below 0C (+32F). Temperature extremes will affect the ability of your battery to charge. Allow the GPS receiver to cool down or warm up first.

Batteries must be recycled or disposed of properly. Batteries must not be disposed of in municipal waste.

DO NOT DISPOSE OF THE BLUETOOTH GPS RECEIVER/DATA LOGGER IN A FIRE!

Charge the Bluetooth GPS receiver/data logger only with the charger supplied. When a charger is not in use, disconnect it from the power source. Do not leave the GPS receiver connected to a charger for longer than 24 hours, since excessive charging may shorten its life. If left unused, a fully charged battery will discharge itself over time.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Switch Off

Obey all laws, regulations, rules and restrictions. Switch off the host mobile computer and discontinue operation of the Bluetooth GPS receiver/data logger in hospital ICU, aircraft, gasoline station, near fuel or chemical, near blasting area, or other restricted areas.

Getting Started

First Steps

Before using the Bluetooth GPS receiver/data logger, check that the following tasks have been completed:

- The GPS application software is correctly installed in the host mobile computer
- The Bluetooth GPS receiver/data logger is fully charged
- Bluetooth is enabled in the host mobile computer
- The external antenna is installed, if needed
- The GPS receiver (or external antenna, if installed) has a clear view of the sky.

For information about the operation of the host computer and GPS application software installation procedures, please refer to the documentation that accompanies each product, respectively.

Connecting and Pairing the Bluetooth GPS receiver/data logger with the mobile computer

For full instructions on how to pair and connect your Bluetooth GPS receiver/data logger with the mobile computer, please consult and follow the user guide that comes with the host mobile computer.

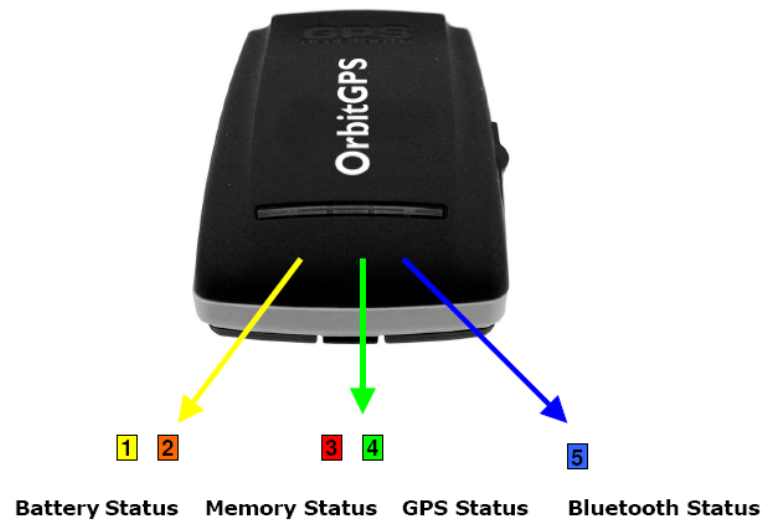
First, turn on the power of host and Bluetooth GPS receiver/data logger, respectively.

- ▶ Turn on the power of the mobile computer.
- ▶ Turn on the power of the Bluetooth GPS receiver/data logger.

(Make sure the battery of the Bluetooth GPS receiver/data logger is fully charged or that the charger is attached and plugged in.)

LED Configurations

Once the Bluetooth GPS receiver/data logger is powered on and before pair/connection is achieved, the LED indicators will show as follows:



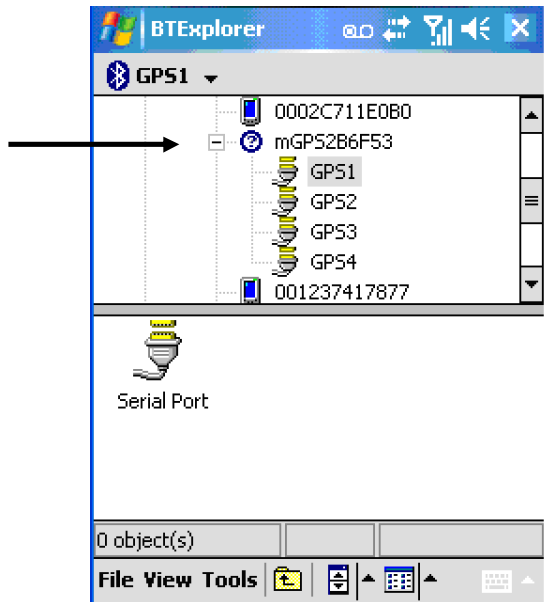
| | | |
|---|--|---|
| 1 | | Yellow LED indicates power is in charging |
| 2 | | Blinking Amber LED indicates low power |
| 3 | | Glowing RED LED indicates Memory Full (GPS Green LED off) |
| 4 | | Glowing Green LED indicates position is fixed Blinking Green LED indicates position not fixed |
| 5 | | Glowing Blue LED indicates Bluetooth is connected Blinking Blue LED indicates Bluetooth is not connected |

Establishing a Bluetooth connection example

The following example uses Stone Street One BTExplorer version 1.2.4. **Other Bluetooth management software screens and procedures may differ.**

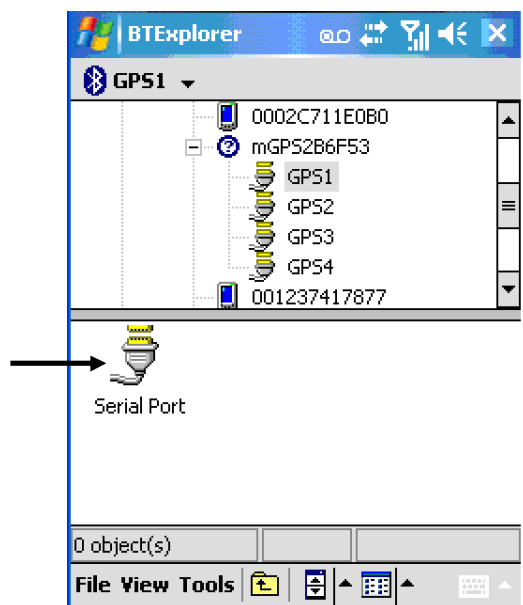
Step 1

Use the Bluetooth management software to discover devices. Then tap on the device name for the GPS receiver.



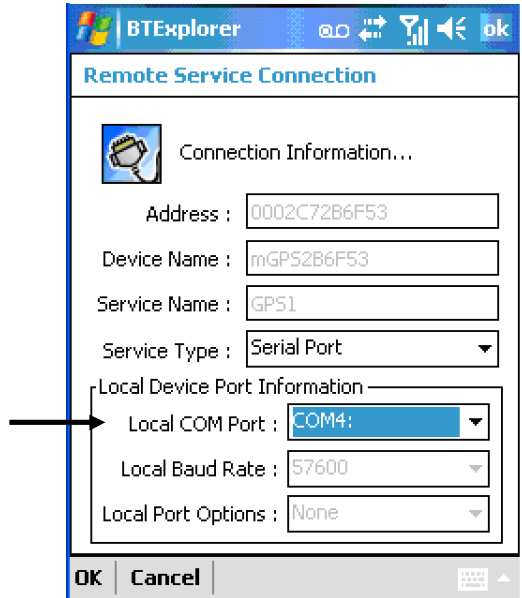
Step 2

Tap on the serial port icon to initiate the connection.



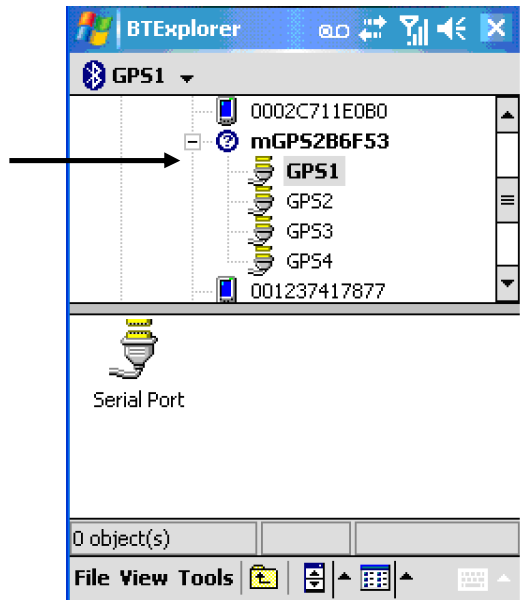
Step 3

Assign a COM port to the GPS receiver (if required). This is the COM port that will be used by the GPS application. Take care not to assign the GPS receiver to a COM port used by another application.



Step 4

If the name of the device is in bold text, the GPS receiver is connected to the host mobile computer.



Using the Bluetooth GPS receiver/data logger with an existing GPS application

The Bluetooth GPS receiver/data logger is designed to work “out-of-the-box” with GPS applications that accept data in the NMEA protocol format.

The National Marine Electronics Association regulates the NMEA 0183 specifications standard which defines a set of ASCII strings, called sentences, which relay GPS navigation information. This is the most commonly used standard for GPS communications.

To configure the Bluetooth GPS receiver/data logger for use with a GPS application that supports the NMEA protocol, set the following parameters in the GPS application:

- **GPS Com Port or Com Port:** Choose the COM port you selected when you established the Bluetooth connection.
- **Baud Rate:** Enter the baud rate displayed when you established the Bluetooth connection.
- **Protocol:** NMEA (Depending on the GPS application, you may not be asked to enter the protocol.)
- **Device Passkey: 0000**

Once these parameters have been set, the GPS application should begin automatically receiving GPS data from the Bluetooth GPS receiver/data logger. Please consult the GPS application documentation for further information on how to communicate with an attached GPS receiver.

Using the Bluetooth GPS receiver/data logger/ with the GlobalPoint GPS application

The GlobalPoint GPS application provides a means to confirm proper operation of the Bluetooth GPS receiver/data logger and configure the mode of operation (NMEA or SiRF). Detailed instructions on how to use the GlobalPoint GPS application are included below.

The GlobalPoint GPS application can be downloaded at www.OrbitGPS.com/support.html

Charging the battery of the Bluetooth GPS receiver/data logger

When the blinking amber LED light is light on, you need to charge the Li-ion battery inside the Bluetooth GPS receiver/data logger by plugging the charger's plug into the power jack of the GPS receiver under the rubber flap. Use only the approved OrbitGPS AC charger (Included with the receiver) or OrbitGPS's DC charger (G2021).

Using the Data Logging features of the Bluetooth GPS receiver/data logger.

The data logger features include the ability to store and later download the data to a host device over Bluetooth. Please contact OrbitGPS for information on using the GPS data logger toolkit to integrate the Bluetooth Data Logger with your application.

Care and Maintenance

The Bluetooth GPS receiver/data logger is a sophisticated product of superior design and craftsmanship, and should be treated with care. The suggestions below will help you to fulfill any warranty obligations. When using the GPS receiver and external active antenna:

- Keep GPS receiver and all accessories out of small children's reach.
- Keep GPS receiver dry. Humidity, liquids and precipitation contain minerals that will corrode its connector, jack, plug and electronic circuit boards.
- Use only the supplied and approved accessories. Unauthorized accessories, antenna, modifications or attachments could damage the GPS receiver and may violate regulations governing radio devices.
- Only use the charger supplied with for charging purpose. Use of some other charger may damage the GPS receiver and even lead to the risk of explosion.
- Use dry and clean soft cloth to clean the GPS receiver. Do not use harsh cleaning solvents, chemicals or strong detergents.
- Do not drop, shake or knock the GPS receiver. Rough handling can break the connector, jack and internal electronic circuit boards. Dropping the GPS receiver may break the connector and jack which will cause non-recoverable and malfunction damages.
- Do not expose to rain or high humidity environment, or even pour water on it, which will cause malfunction or non-recoverable damage.
- Do not store GPS receiver in dusty, dirty areas. Some parts, like connector pins and clips, can be damaged.
- Do not store GPS receiver in hot areas. High temperatures can shorten the life of electronic devices, and melt or drape certain plastics.
- Do not expose to high temperatures higher than 60°C (140°F) such as in a vehicle under direct sunshine.
- Do not store GPS receiver in cold areas. When the GPS receiver warms up to its normal operation temperature, moisture can aggregate inside it, which may severely damage electronic circuit boards inside.

- Do not attempt to open the GPS receiver. Unauthorized handling may damage the GPS receiver.
- Do not paint on the GPS receiver. Paint can clog the connector, jack, and prevent proper normal operation of the GPS receiver.

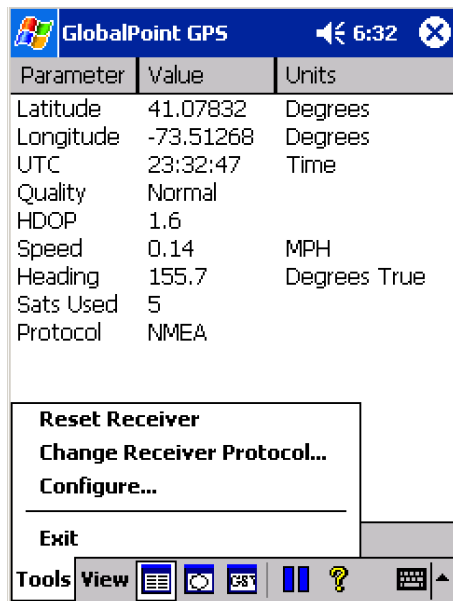
GlobalPoint GPS Software

The GlobalPoint GPS software provides a means to configure and confirm operation of the Bluetooth GPS receiver/data logger. In the GlobalPoint GPS software you will be able to choose the mode of operation of the receiver and display positioning and performance information.

GlobalPoint GPS software can be downloaded at www.OrbitGPS.com/support.html.

Tools Menu Options

Use the **Tools** menu to access configuration options or to exit the program.



The tools menu contains the following options:

- Reset Receiver
- Change Receiver Protocol
- Configure
- Exit

Important Note: When first using the GlobalPoint GPS application, go to the **Configure...** option first to set up communication between the Bluetooth GPS receiver/data logger and Symbol mobile computer.

Reset Receiver

Use the *Reset Receiver* option to select the Start Mode and begin a new initialization of the receiver.



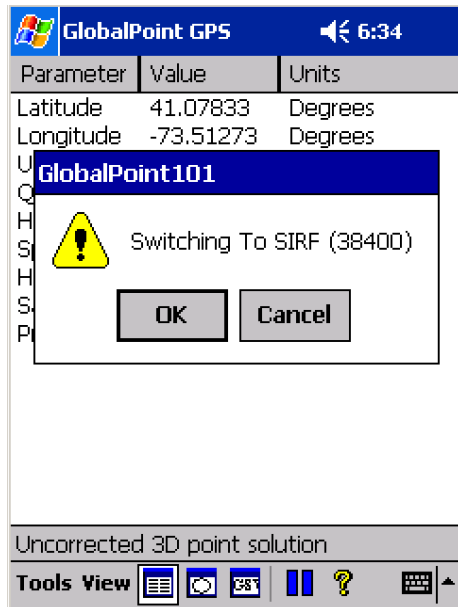
Cold Start causes the receiver to release any fix information and completely re-initialize navigation data (almanac, ephemeris, and clock). Typical "Time to First Fix" (TTFF) is 45 seconds or less.

Hot Start causes the receiver to keep existing navigation data and refresh the fix. Typical TTFF is 8 seconds or less.

Change Receiver Protocol

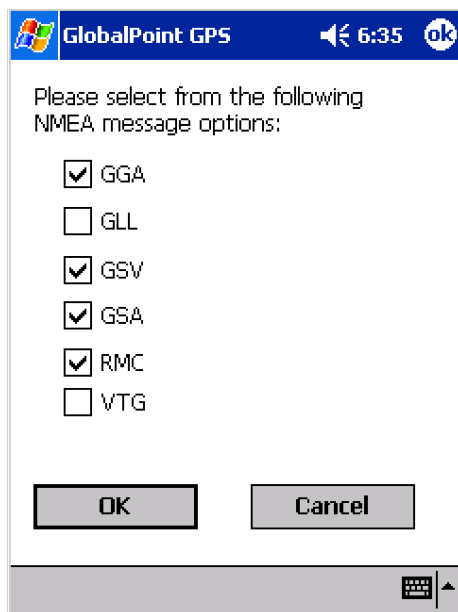
Change Receiver Protocol causes the receiver to switch between the two available modes of operation: NMEA or SiRF. NMEA is the default mode of operation for the Bluetooth GPS receiver/data logger for the Symbol mobile computers.

When in NMEA mode, choose this option to switch to SiRF mode.



The GlobalPoint GPS application requires the user to confirm switching the mode of operation from NMEA to SiRF. To cancel the ***Change Receiver Protocol*** command, tap on “Cancel.”

When in SiRF mode, choose this option to switch to NMEA mode.



The GlobalPoint GPS application requires the user to confirm switching the mode of operation from SiRF to NMEA. To cancel the ***Change Receiver Protocol*** command, tap on “Cancel.”

The ***Change Receiver Protocol*** also allows the user to choose which NMEA sentences are to be communicated from the Bluetooth GPS receiver/data logger to the mobile

computer. The following NMEA sentences are supported by the Bluetooth GPS receiver/data logger :

GSV

Set this NMEA sentence to the update interval for the GNSS Satellites in view.

GLL

Set this NMEA sentence to the update interval for the Geographic Position: Latitude and Longitude.

RMC

Set this NMEA sentence to the update interval for the Recommended Minimum Specific GNSS Data.

GSA

Set this NMEA sentence to the update interval for the GNSS DOP and Active Satellites.

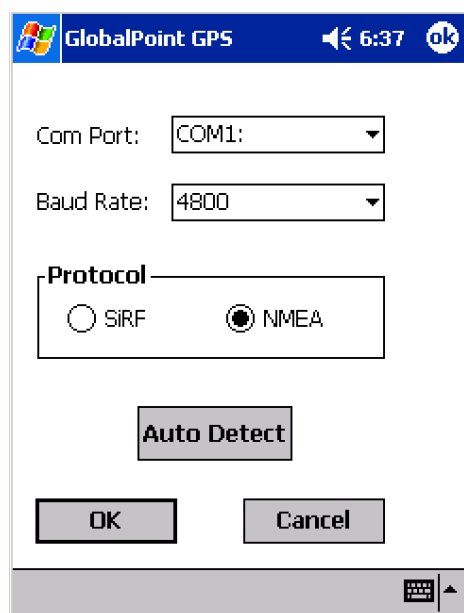
VTG

Set this NMEA sentence to the update interval for the Course Over Ground and Ground Speed.

The default NMEA sentences for the Bluetooth GPS receiver/data logger are GGA, GSV, GSA and RMC.

Configure

Use this option to configure the connection between the Bluetooth GPS receiver/data logger and the Symbol mobile computer.



Com Port

This value determines the PC communications port the GPS receiver is connected to

Baud Rate

This value determines the Baud Rate (or data transfer rate) at which the GPS receiver communicates with the mobile computer.

Protocol

This value determines the mode of operation to be used by the Bluetooth GPS receiver/data logger.

Auto Detect

Use this option to have the GlobalPoint GPS application automatically detect the Com Port, Baud Rate and Protocol in use by the GPS receiver attached to the mobile computer.

OK and Cancel

Select "OK" to save the settings selected or "Cancel" to disregard any changes.

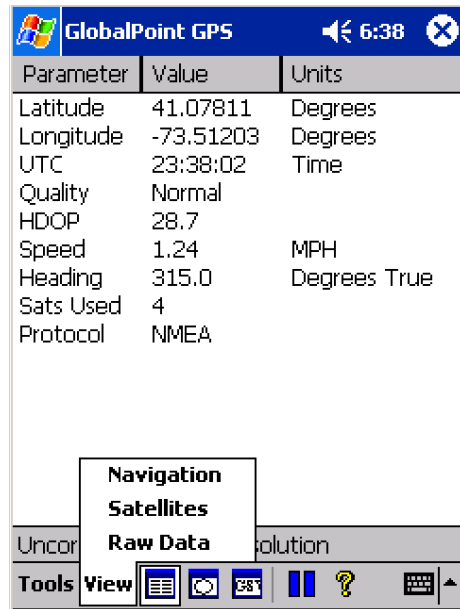
Exit

Use the *Exit* option to quit the GlobalPoint GPS application return to the Windows Mobile "Today" screen.

Important Note: To fully exit the GlobalPoint GPS application, the *Exit* option must be used. "Closing" the application by tapping on the "X" in the upper-right-hand portion of the screen will not exit the program, but cause it to be minimized where it will continue running in memory. If the GlobalPoint GPS application is running in memory, it will block other GPS applications from running properly on the mobile computer.

View Options

Use the **View** menu to choose how tracking information is displayed within the GlobalPoint GPS application.



The tools menu contains the following options:

- Navigation
- Satellites
- Raw Data

These options can also be selected by tapping on the following icons:



Navigation



Satellites



Raw Data

Fix Description

At the lower portion of the screen, just above the **Tools** menu, the GlobalPoint GPS application displays the type of fix currently acquired by the GPS receiver. This value can change over time as the receiver's viewable sky changes, or if the receiver is re-initialized. The types of fixes are:

- Invalid unavailable solution – This signifies that not enough satellite data is available to provide a fix. This occurs as the receiver is initialized or when an insufficient number of satellites are in the viewable sky.
- Corrected 3D point solution – This signifies that a three-dimensional GPS fix is available and that it is corrected using WAAS.
- Uncorrected 3D point solution - This signifies that a standard three-dimensional GPS fix is available.
- Uncorrected 2D point solution – This signifies that a two-dimensional GPS fix is acquired.

Navigation View

Use the “Navigation” view to display summary data for GPS fix information communicated from the GPS receiver.

The screenshot shows a window titled "GlobalPoint GPS" with a system tray showing a speaker icon and the time "6:30". The main area contains a table with the following data:

| Parameter | Value | Units |
|-----------|-----------|--------------|
| Latitude | 41.07833 | Degrees |
| Longitude | -73.51272 | Degrees |
| UTC | 23:30:14 | Time |
| Quality | Normal | |
| HDOP | 1.6 | |
| Speed | 0.31 | MPH |
| Heading | 155.7 | Degrees True |
| Sats Used | 5 | |
| Protocol | NMEA | |

Below the table, the text "Uncorrected 3D point solution" is displayed. At the bottom, there is a "Tools View" section with several icons: a list icon, a globe icon, a "387" icon, a vertical bar icon, a question mark icon, and a keyboard icon.

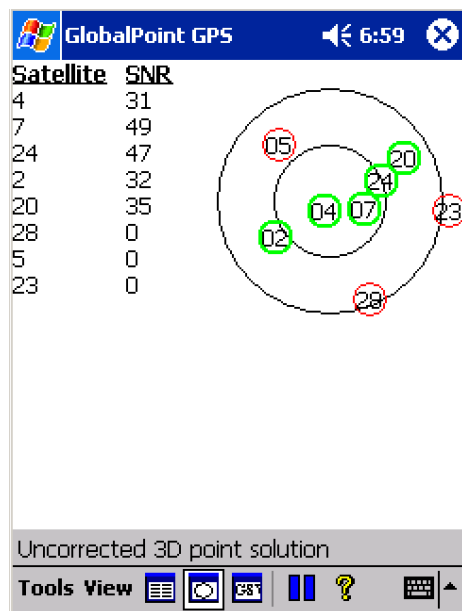
Parameters displayed in the Navigation view are:

- **Latitude** – Displays the current location on the face of the Earth north or south of the Equator. Latitude is an angular measurement ranging from 0° at the Equator to 90° at the poles (90° N or 90° S). In the GlobalPoint GPS application, **North** is shown as a positive value and **South** is shown as a negative value.
- **Longitude** – Displays the current location on the face of the Earth east or west of a north-south line called the Prime Meridian. Longitude is an angular measurement ranging from 0° at the Prime Meridian to +180° eastward and –180° westward. In the GlobalPoint GPS application, **East** is shown as a positive value and **West** is shown as a negative value.
- **UTC** – “Coordinated Universal Time or UTC,” is the equivalent of Greenwich Mean Time, the astronomical basis for civil time.

- **Quality** – Displays whether current fix is a “Normal” uncorrected fix or a WAAS “Corrected” fix.
- **HDOP** – “Horizontal Dilution Of Precision” is a measure of how the satellite geometry influences the latitude and longitude data accuracy. A good satellite geometry and hence a good accuracy is obtained if the satellites being tracked are located as far away from each other as possible, while the geometry is poor if the satellites are located close to each other. If the HDOP value is higher than about 10 the latitude and longitude data likely to be inaccurate.
- **Speed** – Displays the current velocity in miles per hour.
- **Heading** – Displays the current direction of travel in degrees with North being 0°.
- **Sats Used** – The number of satellites used in the current fix.
- **Protocol** – The current mode of operation. This can be SiRF or NMEA.

Satellites View

Use the “Satellite” view to display summary data about the available satellites in the viewable sky.



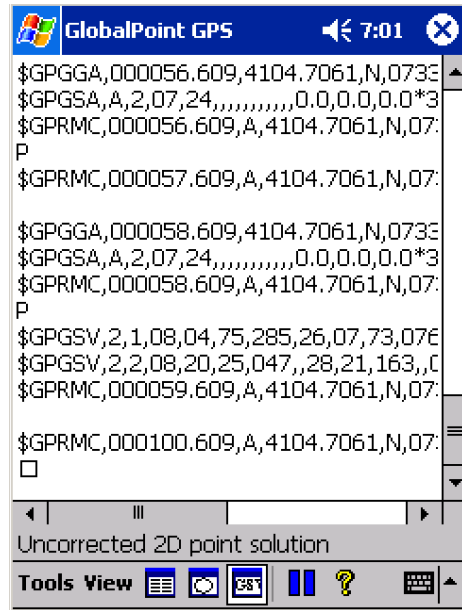
Parameters displayed in the Navigation view are:

- **Satellites** – This column displays all satellites available in the viewable sky by the identifying number of each satellite as determined by the GPS authorities.
- **SNR** - This value indicates the carrier signal to noise ratio for the signal received by the individual satellite. Typically, satellites with SNR values below 28 are not used in GPS fixes.

- **Satellite Sky Map** – This graphic image displays the relative position of the viewable satellites overhead.

Raw Data View

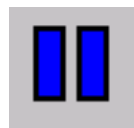
Use the “Raw Data” view to display raw GPS signal data being received by the GPS receiver.



Additional Options

Pause

Tapping the “Pause” icon temporarily pauses the GPS data stream being received by the GPS receiver. To resume the GPS data stream, tap on the pause icon. When active, the pause icon will have a gray background. When paused, the icon will have a white background.



Pause Icon (unpaused)



Pause Icon (paused)

Bluetooth GPS Receiver/Data Logger Specifications



Product Description

Bluetooth GPS Receiver/Data Logger – Collects GPS satellite data and communicates information to mobile computer using Bluetooth. The device has the additional ability to store GPS data in internal flash memory for later access by handheld. This GPS receiver has a user-replaceable internal battery that allows it to be used as a stand-alone receiver.

Chipset

| | |
|--------------------|-------------------|
| GPS Chipset: | SiRFstar III |
| Chipset Processor: | ARM7/TDMI – 49MHZ |

Receiver

| | |
|---------------------|---|
| Frequency: | L1, CA code |
| Signal Acquisition: | 1920 time/frequency search channels |
| Channels: | 20 Channels; all-in-view tracking |
| Max. Update Rate: | 1Hz |
| Sensitivity: | -159dBW |
| DGPS Source: | Default: None |
| DGPS Programmable: | WAAS/EGNOS |
| System Back Up: | Built-in Lithium-Ion rechargeable battery |
| Antenna Type: | Built-in Antenna |

Position/Time Accuracy (without SA)

| | |
|-------------|--|
| Autonomous: | <10 m |
| WAAS | <5m |
| Velocity: | 0.1 meters/second |
| Time: | 1 microsecond synchronized to GPS time |

Datum: WGS-84

Acquisition Rate

Reacquisition: 100msec

SnapStart <3sec

Hot Start: <8 seconds

Warm Start: <38 seconds

Cold Start: <45 sec

Protocol

Default: NMEA-0183 (V2.20)- GGA(1), GSA(1), GSV(5), RMC(1)

Programmable: Additional NMEA- VTG, GLL / SiRF Binary

Data Logger

Memory: 64mb; 650,000 records

Protocol: OrbitGPS API

Power

Powered by: 680mAh Replaceable rechargeable battery, 5V DC power, AC power,

Operation time: 10 hours (typical). (Depends on duty-cycle setting in trickle power mode)

Dynamic Conditions

Altitude: <18,000 meter

Velocity: < 515 meter/second

Acceleration: <4g

Environmental

Operating Temperature: -20°C to +60°C

Storage Temperature: -20°C to +50°C

Humidity: 5% to 95%, non-condensing

Regulatory

Marks: FCC, CE

Physical Interface to Terminal

Connector: None – Bluetooth Class 2 device.

Dimensions

Depth: 23mm

Width: 41mm

Length: 70mm

Weight: 65g

OrbitGPS Part Number

OrbitGPS part number: G2020

Accessories

G2011 12V DC Cig. Lighter Adaptor.

G2012 Magnetized External Antenna.

Regulatory Information

Statement of compliance

OrbitGPS hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EEC and 73/23/EEC. Declaration of Conformities may be obtained from OrbitGPS on request.

The GLOBALPOINT GPS has been tested to and found to comply with the following standards for use within the Economic Union:

EMC Directive 89/336/EEC:

EN 55022:1998

EN 55024:1998 + A1:2001

R&TTE Directive 99/5/EC:

EN 301 489-3 V1.4.1 (2002-08)

Low Voltage Directive 73/23/EEC:

IEC 60950-1 1st Edition 2001 (National and group differences in accordance with CB Bulletin No. 109A December 2005)

The GLOBALPOINT GPS has also been tested and found to comply with:

Title 47 of the CFR:2004, Part 15, Subpart (b)

Class B Radiated Electric Field Emissions and Power Line Conducted Emissions

The GLOBALPOINT GPS complies with:

RoHS Directive 2002/95/EC

Warranty

(a) OrbitGPS's hardware Products are warranted against defects in workmanship and materials for a period of twelve (12) months from the date of shipment by OrbitGPS's reseller to its customer, but in no event more than fifteen (15) months from shipment of the Products by OrbitGPS, unless otherwise provided by OrbitGPS in writing, provided the Product remains unmodified and is operated under normal and proper conditions. Warranty provisions and durations on software, integrated installed systems, Product modified or designed to meet specific customer specifications ("Custom products"), remanufactured products, and reconditioned or upgraded products, shall be as provided in the applicable Product specification in effect at the time of purchase or in the accompanying software license; (b) Spare parts (i.e. Parts, components, or subassemblies sold by OrbitGPS for use in the service and maintenance of Products) are warranted against defects in workmanship and materials for a period of thirty (30) days from the date of shipment. Spare parts may be new or originate from returned units under the conditions set forth in subsection (d) below; (c) For repairs on OrbitGPS-branded hardware Products under this Agreement, including repairs covered by warranty, the repair services provided are warranted against defects in workmanship and materials on the repaired component of the Product for a period of thirty (30) days from the shipment date of the repaired Product, or until the end of the original warranty period, whichever is longer; and (d) Products may be serviced or manufactured with parts, components, or subassemblies that originate from returned products and that have been tested as meeting applicable specifications for equivalent new material and Products. The sole obligation of OrbitGPS for defective hardware Products is limited to repair or replacement (at OrbitGPS's option) on a "return to service depot" basis with prior OrbitGPS authorization. Solution Provider is responsible for shipment to OrbitGPS and assumes all costs and risks associated with this transportation; return shipment to the Solution Provider will be at OrbitGPS's expense. Solution Provider shall be responsible for return shipment charges for product returned where OrbitGPS determines there is no defect ("No Defect Found"), or for Product returned that OrbitGPS determines is not eligible for warranty repair. No charge will be made to Solution Provider for replacement parts for warranty repairs. OrbitGPS is not responsible for any damage to or loss of any software programs, data or removable data storage media, or the restoration or reinstallation of any software programs or data other than the software, if any, installed by OrbitGPS during the manufacture of the Product; (e) Except for the warranty applying solely to the repaired component arising from a repair service as provided in (c) above, the aforementioned provisions do not extend the original warranty period of any Product that had either been repaired or replaced by OrbitGPS; (f) The above warranty shall not apply to any Product (I) which has been repaired, tampered with, altered or modified, except by OrbitGPS's authorized service personnel; or (II) in which the defects or damage to the Product result from normal wear and tear, misuse, negligence, improper storage, water or other liquids, battery leakage, use of parts or accessories not approved or supplied by OrbitGPS, or failure to perform operator handling and scheduled maintenance instructions supplied by OrbitGPS; (III) which has been subjected to unusual physical or electrical stress, abuse, or accident, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable Product specification; nor shall the above warranty provisions apply to any expendable or consumable items, such as batteries, supplied with Product. 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Service Information

Before you use the Bluetooth GPS receiver/data logger, it must be configured to operate with your mobile computer and applications. If you have a problem using the Serial GPS receiver, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the OrbitGPS Support Center:

Email: support@OrbitGPS.com

For the latest version of this guide go to <http://www.OrbitGPS.com/support.html>

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