

# BR-355-S4

## GPS Receiver

- SiRF Star IV
- 48-Channel All-In-View Tracking
- NMEA 0183
- WAAS/ EGNOS Support
- 2.08" Diameter X 0.75"
- Built-In Supercap For Rapid Acquisition
- Built-In GPS Patch Antenna
- Built-In Roof Mount Magnet
- Serial Port Interface



The BR-355-S4 GPS Receiver can be utilized in a variety of applications which require GPS signals to be received and decoded in your Windows laptop or tablet, and for Mac users, Macbooks, or Macbook Pros. Compatible with most NMEA compliant third-party software, the BR-355-S4 is suitable for use in vehicle, marine and aviation navigation, as well as commercial and municipality applications such as fire trucks, police cars, buses, GIS data collection and much more! The BR-355-S4's slim profile housing is completely waterproof and incorporates an active patch antenna for the highest level of GPS accuracy.

With a 60" cable, placement of the GPS receiver within the vehicle is not critical, however in those rare occurrences when towering high-rises offer challenging satellite reception, simply place the BR-355-S4 on the vehicle's roof (attaches via its built-in magnet) for improved performance. Since power and data are transferred through the BR-355-S4's cable, there's no need for batteries or any other external power source.

## Serial GPS Receiver

### General Specifications

GPS Chipset.....SiRF Star IV  
 Frequency.....L1,1575.42 MHZ  
 C/A Code.....1.023 MHz Chip Rate  
 Channels.....48 all-in-view tracking  
 Sensitivity.....-163 dBm  
 Accuracy.....< 2.5m 2D RMS SBAS Enabled

### Aquisition Rate

Hot start.....1 sec., average  
 Warm start.....35 sec., average  
 Cold start.....35 sec., average  
 Reacquisition.....0.1 sec. average  
 Update rate.....1Hz

### Protocol

GPS Protocol.....Default: NMEA 0183 (Secondary: SiRF binary)  
 GPS Output Data.....SiRF binary >> position, velocity, altitude, status  
 and control NMEA 0183 V3.0 protocol (GGA, GSA, GSV, RMC, VTG, GLL, ZDA)  
 GPS transfer rate.....Software command setting (Default : 4800,n,8,1 for NMEA )

### Dynamic Condition

Acceleration Limit.....Less than 4g  
 Altitude Limit.....Max 60,000 Feet (18,000 meters)  
 Velocity Limit.....Max 515 Meters / sec (1000 Knots / 151 MPH)  
 Jerk Limit.....20 m/sec\*\*3

### Environmental Specifications

Operating.....-40~ 185°F (-40~ 85°C)  
 Storage.....-40~ 185°F (-40~ 85°C)  
 Humidity.....Up to 95% non-condensing

### Electrical Characteristics

Voltage.....4.5V - 5.5V  
 Current.....55mA Maximum

### Physical Characteristics

Dimension.....2.08" diameter x 0.75" (53mm dia. x 19.2mm)  
 Cable Length.....59" (1,500 mm)  
 Weight.....2.2Ounces (62.37g)

## PACKAGE CONTENTS:



Suction Cup

	<b>48 CHANNEL</b>	<b>WIN</b>
<b>SERIAL</b>	<b>SiRF IV</b>	<b>MAC</b>

**Taiwan**  
 GLOBALSAT INCORPORATED  
 16F, No. 186, Jian Yi Road, Chung Ho City  
 Taipei Hsien, Taiwan  
 T: +866-2-82263799 F: +866-2-82263899  
 globalsat.com.tw service@globalsat.com.tw

**North America**  
 USGLOBALSAT, INC.  
 14740 Yorba Court  
 Chino, CA 91710  
 T: +909-597-8525 F: +909-597-8532  
 usglobalsat.com sales@usglobalsat.com

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