

# BU-353S4

## 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
- USB 2.0 Interface



The BU-353-S4 is a USB GPS receiver that features a highly sensitive, low power consumption chipset in an ultra compact form factor. The BU-353-S4 is powered by a SiRF Star IV GPS chipset, and will provide you with superior performance in urban canyons, and in dense foliage. With the SiRF CGEE (Client Generated Extended Ephemeris) technology, has the capability of predicting satellite positions for up to 3 days in advance, and will deliver a CGEE-start time of less than 15 seconds under most conditions without any network assistance. The BU-353-S4's MicroPower mode allows the receiver to stay in a hot start-like condition almost continuously while consuming very little power.

## USB 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)  
 USB Cable Length.....59" (1,500 mm)  
 Weight.....2.2Ounces (62.37g)

### Carton Specifications

Quantity Per Box.....50  
 Carton Weight.....26lbs  
 Carton Dimensions.....29" x 16" x 12" ( 736.6mm x 406.4mm x 304.8mm)

## PACKAGE CONTENTS:



Suction Cup

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

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