

# 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 a 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.....N/A  
C/A Code.....N/A  
Channels.....48 all-in-view tracking  
Sensitivity.....-163 dBm  
Accuracy.....N/A

### 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 Charateristics

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 Weght.....26lbs  
Carton Dimensions.....29" x 16" x 12" ( 736.6mm x 406.4mm x 304.8mm)

### PACKAGE CONTENTS:



Suction Cup

	48 CHANNEL	WIN
USB	SiRF IV	MAC

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