

# BU-353

## GPS Receiver

- SiRF Star III
- 20-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 Interface



The BU-353 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, iBooks or Powerbooks. Compatible with most NMEA compliant third-party software, the BU-353 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 BU-353'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 BU-353 on the vehicle's roof (attaches via a built-in magnet) for improved performance. Since power and data are transferred through the BU-353's USB cable, there's no need for batteries or any other external power source.

## USB GPS Receiver

### General Specifications

GPS Chipset.....SiRF Star III e/LP  
 Frequency.....L1, 1575.42 MHZ  
 C/A Code.....1.023 MHz chip rate  
 Channels.....20 all-in-view tracking  
 Sensitivity.....-159 dBm  
 Accuracy.....5m 2D RMS WAAS enabled  
 10m 2D RMS WAAS disabled

### Aquisition Rate

Hot start.....8 sec., average  
 Warm start.....38 sec., average  
 Cold start.....45 sec., average  
 Reacquisition.....0.1 sec. average

### Protocol

GPS Protocol.....Default: NMEA 0183 (Secondary: SiRF binary)  
 GPS Output Data.....SiRF binary >> position, velocity, altitude, status  
 and control NMEA 0183 V2.2 protocol, and  
 supports command: GGA, GSA, GSV, RMC,  
 VTG, GLL v2.2 (VTG and GLL are optional)  
 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~ 176°F (-40~ 80°C)  
 Storage.....-40~ 176°F (-40~ 80°C)  
 Humidity.....Up to 95% non-condensing

### Electrical Characteristics

Voltage.....4.5V - 6.5V  
 Current.....50mA typical

### 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>20 CHANNEL</b>	<b>WIN</b>
<b>USB</b>	<b>SIRF III</b>	<b>MAC</b>

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