## PRODUCT SPECIFICATION USB GPS RECEIVER BU-353

Ver 1.03

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## **Product Feature**

- "SiRF star" high performance and low power consumption chipset
- All-in-view 20-channel parallel processing
- Built-in patch antenna
- Very High sensitivity to satellite signal (Tracking Sensitivity:-159 dBm)
- Extremely fast TTFF(Time To First Fix) at low signail level
- Build-in SuperCap to reserve system data for rapid satellite acquisition.
- Supported NMEA 0183 data protocol
- Super-cohesive magnetic for mounting on the car
- Water resisted and non-slip on the bottom
- USB interface connection port
- LED indicator for GPS fix or not fix

LEDOFF: Receiver switch off

LED ON: No fixed, Signal searching

LED Flashing: Position Fixed

## **System Specification**

Floatrical Characteristics (Descine)	
Electrical Characteristics (Receiver) Chipset Frequency	SIRF Star III L1, 1575,42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Sensitivity	-159 dBm
Accuracy Position Horizontal	10m 2D RMS (SA off)
Velocity	0.1m/sec
Time	1 micro-second synchronized to GPS time
WAAS enabled	5m 2D RMS
Datum	W00 04
Acquisition Rate	WGS-84
Hot start	1 sec., average (with ephemeris and almanac valid)
Warm start	38 sec., average (with almanac but not ephemeris)
Cold start	42 sec., average (neither almanac nor ephemeris)
Reacquisition	0.1 sec. average (interruption recovery time)
Protocol GPS Protocol	Default: NMEA 0183
GPS Output Data	SiRF binary >> position, velocity, altitude, status and
'	control;
	NMEA 0183 protocol.supports command: GGA,
	GSA, GSV, RMC, VTG, GLL (VTG and GLL are
GPS transfer rate	optional) Software command setting (Default : 4800,n,8,1 for
Of O transfer rate	NMEA )
Dynamic Condition	
Acceleration Limit	Less than 4g
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit Jerk Limit	515 meters/sec. (1,000 knots) max. 20 m/sec**3
Temperature	2011/366 3
Operating	-40°~ 85°C
Storage	-40°~ 85°C
Humidity	Up to 95% non-condensing
Power Voltage	4.5V ~ 6.5V
Voltage Current	4.5V ~ 6.5V 80mA typical
Guilent	oon in Cypical
Physical Characteristics	
Dimension	53mm diameter , 19.2mm height
USB Cable Length	65"



**USB GPS Receiver** 

Due to continuous product improvements, all specifications may be subject to change without notice