

PRODUCT SPECIFICATION

RS232 GPS RECEIVER

BR-355

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 (Tracking Sensitivity: -159 dBm)
- Extremely fast TTFF (Time To First Fix) at low signal level
- Superior urban canyon performance
- Build-in SuperCap to reserve system data for rapid satellite acquisition.
- Support NMEA 0183 data protocol
- Super-cohesive magnetic for mounting on the car
- Water resisted and non-slip on the bottom
- LED indicator for GPS fix or not fix
 - LED OFF: Receiver switch off
 - LED ON: No fixed, Signal searching
 - LED Flashing: Position Fixed
- RS232 interface with PS2 connector

System Specification

Electrical Characteristics (Receiver)		
Frequency	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 95% (SA off),	
Time	1 micro-second synchronized to GPS time	
WAAS enabled	5m 2D RMS	
Datum		
Datum	WGS-84	
Acquisition Rate		
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 (Secondary: SiRF binary)	
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 optional)	
GPS transfer rate	Software command setting (Default : 4800,n,8,1 for NMEA)	
Dynamic Condition		
Acceleration Limit	Less than 4g	
Altitude Limit	18,000 meters (60,000 feet) max.	
Velocity Limit	515 meters/sec. (1,000 knots) max.	
Jerk Limit	20 m/sec**3	
Temperature		
Operating	-40°~ 85°C	
Storage	-40°~ 85°C	
Humidity	Up to 95% non-condensing	
Power		
Voltage	4.5V ~ 6.5V	
Current	80mA typical (Continuous mode)	
Physical Characteristics		
Dimension	53mm diameter , 19.2mm height	
Cable Length	65"	



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