

PRODUCT SPECIFICATION RS232 GPS RECEIVER BR-304

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Product Feature

- "SiRF Star? /LP" high performance and low power consumption chipset
- All-in-view 12-channel parallel processing
- · Built-in active antenna
- High sensitivity to satellite signal
- Cold start under 45 seconds, average
- Superior urban canyon performance
- FoliageLock for weak signal tracking
- Build-in SuperCap to reserve system data for rapid satellite acquisition.
- Supported NMEA 0183 command: GGA, GSA, GSV, RMC, GLL, VTG
- Super-cohesive magnetic for mounting on the car
- · LED indicator for GPS fix or not fix

LEDOFF: Receiver switch off

LED ON: No fixed, Signal searching

LED Flashing: Position Fixed

- Non-slip on the bottom
- RS232 interface connection port

System Specification

Electrical Characteristics (Receiver)	
Frequency C/A Code Channels	L1, 1575.42 MHz 1.023 MHz chip rate 12
Sensitivity	-170 dBW
Position Horizontal Velocity Time WAAS enabled Datum	15m 2D RMS (SA off) 0.1m/sec 95% (SA off), 1 micro-second synchronized to GPS time 10m 2D RMS
Datum	WGS-84
Acquisition Rate Hot start Warm start Cold start Reacquisition Protocol	8 sec., average (with ephemeris and almanac valid) 38 sec., average (with almanac but not ephemeris) 45 sec., average (neither almanac nor ephemeris) 0.1 sec. average (interruption recovery time)
GPS Protocol GPS Output Data GPS transfer rate	Default: NMEA 0183 (Secondary: SiRF binary) SiRF binary >> position, velocity, altitude, status and control; NMEA 0183 protocol, and supports command: GGA, GSA, GSV, RMC, VTG, GLL (VTG and GLL are optional) Software command setting (Default: 4800,n,8,1 for NMEA)
Dynamic Condition	KINEA
Acceleration Limit Altitude Limit Velocity Limit Jerk Limit	Less than 4g 18,000 meters (60,000 feet) max. 515 meters/sec. (1,000 knots) max. 20 m/sec**3
Temperature Operating Storage Humidity	-30°~ 80°C -40°~ 85°C Up to 95% non-condensing
Power Voltage Current	5V ±5% 90mA typical (Continuous mode)
Physical Characteristics Dimension Cable Length	2.32" x 1.85" x 0.82" (59mm x 47mm x 21mm) 65"
Low Noise Amp Amplifier Gain w/out cable Filtering Output VSWR Voltage Current	27 dB Typical -25dB (+100 MHz) 2.0 Max. DC 3 ~ 5.0V 15mA max.@5VDC



RS232 GPS Receiver

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