

BT-359 Bluetooth GPS Receiver Specification



ELECTRICAL CHARACTERISTICS	
GPS standard	SiRF StarIII
GPS Antenna	Built-in ceramic patch antenna
Bluetooth standard	Bluetooth V2.0
Operation range	10 meters (33 feet)
Bluetooth Default PIN	0000
Operation time	> 11 hrs
Charge time	< 5 hrs
Automatic Shut-Off	After 10 minutes of no active Bluetooth connection
Charge Connector	Mini USB
ON-OFF button	
Turn ON	Press the ON-OFF button for approximately 1 second to turn the
Turn OFF	Press the ON-OFF button for approximately 1 second to turn the
Perform Reset	Press the ON-OFF button for approximately 5 seconds will
LEDs	
GPS Status	Flashing – GPS position is not fixed / Solid – GPS fixed
Power Status	Solid Red – Battery voltage is low
Bluetooth Status	Flashing (Slow) – Not connected to a Bluetooth device
Temperature	
Operating	-10°C ~ 60°C
Storage	-20°C ~ 70°C
Humidity	Operational up to 95% non-condensing
Power	
DC Power Input	4.5V~5.5V / 0.5A
Battery	
Battery Type	Lithium-ion Rechargeable Battery
Battery Capacity	1100mAh
Mechanical	
Dimension	82.0 mm x 41.0 mm x 13.4 mm

GPS Specifications

Electrical Characteristics	
GPS Chipset	SiRF Star III
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Accuracy	
Position Horizontal	1-5 meters 2D RMS (WAAS corrected) 10 meters, 2D RMS (WAAS Disabled)
Velocity	0.1m/sec
Time	1 micro-second synchronized to GPS time
WAAS	WAAS enabled only for North America sales
Datum	
Datum	Default: WGS-84
Acquisition Rate	
Hot start	1 sec., average
Warm start	38 sec., average
Cold start	42 sec., average
Reacquisition	0.1 sec. average
Protocol	
GPS Protocol	Default: NMEA 0183 (Secondary: SiRF binary)
GPS Output format	GGA(1sec), GSA(1sec), GSV(5sec), RMC(1sec), GLL,
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

Bluetooth Specification

Electrical Characteristics	
Bluetooth Chipset	CSR BC4
Frequency	2402MHz to 2480MHz
Standard	Bluetooth V2.0
Bluetooth Profile	SPP (Serial Port Profile)
Operation Range	10 meters (33 feet)
Output Power	0 dBm (class II)

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