



The BT-R800 is a GPS receiver with Wireless interface and built-in Patch antenna for high sensitivity to tracking signal.

The BT-R800 is well suited to system integration and users who use PDA, Smart phone, Tablet PC and Notebook PC with Wireless devices. It satisfies a wide variety of applications for car navigation, personal navigation or touring devices, tracking, and marine navigation purpose.

## FEATURES

- Atmel Chipset 16 Channels all in view tracking
- High Sensitivity -158dBm
- Reacquisition Time: 0.1 second
- Support Standard NMEA-0183 Protocol
- Auto Adjustment Baud Rate 4800-115200 bps
- DGPS : WAAS/EGNOS./MSAS
- After device disconnects 30 minutes, the GPS receiver shall automatic turn off the power.
- Compatible with Wireless devices with Serial Port Profile(SPP)
- Lithium-ion rechargeable battery lasts for more than 12 hours of use

## APPLICATIONS

- Land/Marine Navigation
- Telematics
- Fleet Management
- Asset Tracking
- Timing Reference

**SPECIFICATION**

Features	Description
<b>General</b>	L1 1575.42MHz, C/A code, 16 -channel all in view tracking
<b>Sensitivity</b>	-158 dBm (typical)
<b>Update Rate</b>	1 Hz
<b>Accuracy</b>	Position: <15m(95%) without S/A Velocity: 0.1 m/sec without S/A Time: ± 100ns synchronized to UTC time
<b>WAAS Accuracy</b>	Position: 3m CEP Velocity: 0.05m/sec
<b>Acquisition</b>	Cold start: 34 sec average Warm start: 33 sec average Hot start : 3.5 sec average
<b>Dynamics</b>	Altitude : 18,000m Max Velocity: 515m/s Acceleration: 4g Max
<b>Reacquisition Time</b>	0.1 second
<b>Datum</b>	WGS-84
<b>DGPS</b>	WAAS/EGNOS/MSAS
<b>Protocol</b>	NMEA-0183 V2.3 , 8-None-1 Baud rate: Auto Adjustment 4800 -115200 bps
<b>NMEA Message</b>	Default : GGA, GSA, GSV, RMC, GLL ,ZDA ,VTG
<b>Operation Temperature</b>	-10°C to +60°C
<b>Storg Temperature</b>	-20°C to +85°C
<b>Operating Humidity</b>	5% to 90% non-condensing
<b>Antenna</b>	Built-in Patch Antenna
<b>Interface connector</b>	Wireless interface
<b>Battery</b>	Lithium-ion Rechargeable Battery 3.7V/1000mAh
<b>Operation Current</b>	70 mA (Typical)
<b>Operation Time</b>	12 hrs, after fully charged, in continuous
<b>Charging time</b>	4 hrs. (Typical)
<b>Dimension/ Weight</b>	73 mm x 45 mm x 20mm / 60g

**\* Preliminary Specification, Subject To Change without Notice**