



**The BT-R700 is a GPS receiver with Wireless interface and built-in Patch antenna for high sensitivity to tracking signal.**

**The BT-R700 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:**

- **16 Channels all in view tracking**
- **Reacquisition Time: 1 second**
- **MMCX connector for external GPS antenna**
- **Support Standard NMEA-0183 at 9600 bps baud rate**
- **Compatible with Wireless devices with Serial Port Profile (SPP)**
- **Two LEDs at the bottom of the device show Wireless and GPS.**
- **Lithium-ion rechargeable battery lasts for more than 18 hours of use**
- **Power On/Off button**
- **Dimension: 81mm x 44mm x 20mm/74.4g**

#### **Applications:**

- **Vehicle Tracking & Location-based Services**
- **Personal/Portable Navigation**
- **Car Navigation**

**Specification:**
**GPS Specification**

<b>Features</b>	<b>Description</b>
<b>General</b>	L1 1575.42MHz, C/A code, 16-channel all in view tracking
<b>Sensitivity</b>	-152 dBm
<b>Accuracy</b>	Position: 5m CEP (50%), 9m (90%) Velocity: 0.1 m/sec without S/A Time: ± 100ns synchronized to GPS time
<b>Acquisition</b>	Cold start: < 60sec (typical) Warm start: < 38sec (typical) Hot start: < 12sec
<b>Reacquisition</b>	1sec
<b>Dynamics</b>	Altitude: 10,000m Max Velocity: Hor.300km/hour; Ver.36km/hour Max Acceleration: 2g Max
<b>Protocol</b>	NMEA-0183 @ 9600 baud, 8-None-1
<b>Datum</b>	WGS-84
<b>Antenna</b>	External Antenna port Active MMCX Antenna
<b>NMEA Message</b>	GGA, GSA, GSV, RMC, VTG, GLL and ZDA
<b>Dimension/ Weight</b>	81*44* 20mm/ 74.4g

**Power Specifications**

<b>Features</b>	<b>Description</b>
<b>Battery</b>	Lithium-ion Rechargeable Battery 3.7V/850mAh
<b>Operation Current</b>	45 mA (Typical)
<b>Operation Time</b>	18hrs, after fully charged, in continuous
<b>Charging time</b>	2.5hrs. (Typical)

**Wireless Specifications**

<b>Features</b>	<b>Description</b>
<b>Standard</b>	Wireless version 1.1 compliant (SPP slave)
<b>Wireless range(open Environment)</b>	Wireless Class 2 operation (Up to 10 meters, 30 Feet)

**Environmental Specification**

<b>Features</b>	<b>Description</b>
<b>Operation Temperature</b>	-20°C to +60°C
<b>Operating Humidity</b>	5% to 90% non-condensing

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