

PBT-111

## High Sensitivity Bluetooth™ GPS Receiver



Polstar Technologies Inc.

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Address : 58 University Road, Hsinchu City 300, TAIWAN.

Longitude : E 121° , 0' , 5.2"  
Latitude : N 24° , 47' , 30.1"

**PBT-111**

- ★ **Built-in SONY's newest 3rd generation solution GPS SOC chip CXD2951.**
- ★ 12 parallel satellite - tracking channels for fast acquisition and reacquisition.
- ★ Compatible with Bluetooth devices with SPP (Serial Port Profile).  
Bluetooth version 1.1 compliant.  
Bluetooth class II operation (up to 10 meters range).
- ★ Ultra mini size, only 61x 41mm.
- ★ Four LEDs showing Bluetooth, GPS ,battery and power charge status.
- ★ Built-in rechargeable battery for memory, RTC backup, and Fast Time To First Fix (TTFF).
- ★ Support NMEA0183 v2.2 data protocol.
- ★ Enhanced algorithms provide superior navigation performance in urban, canyon and foliage environments.
- ★ For Car Navigation , Marine Navigation, Fleet Management , AVL and Location Based Services (LBS) , Auto Pilot ,Personal Navigation or Touring devices, Tracking devices / systems and Mapping devices application.

**SPECIFICATIONS**

Accuracy:	Position: 5m ~ 25m without SA imposed Velocity: 0.1 m/sec without SA imposed Time: ±1 μ sec
Acquisition Time:	Cold start: 50 sec(Average) Warm start: 35 sec (Average) Hot start: 2 sec (Min.)
Sensitivity:	Acquisition: -139 dBm Tracking: -152 dBm
Dynamics:	Altitude: max. 18,000m Velocity: max. 500m/sec Acceleration. max. ±4g
Navigation update rate:	Once per second
BlueTooth:	BlueTooth interface Baud Rate 4800 bps NMEA 0183:GGA, GSV, GSA , RMC
Coordinate Datum:	WGS 84
Power consumption:	Typical (tracking): 135mA @ 3.3V
Battery Lifetime (Min.):	Rechargeable Battery: 6Hrs 3 AAA Alkaline Battery: 8Hrs
LED Indicator:	Red : GPS Blue : BlueTooth Green : Charge Yellow : Low Power
Operating Temp.:	-10 ~ +60 ℃
Storage Temp.:	-40 ~ +85 ℃
Humidity:	5%~95%
Dimension:	61x41x28mm
Antenna Type:	Built-in Patch Antenna

