

# GPS Wireless Solutions

## Model: BT112B-GPS

### Product Specifications:

Ver1.1

<b>Model Number</b>	BT112B-GPS
<b>Descriptions</b>	Bluetooth GPS Receiver
<b>General</b>	
GPS Frequency	L1, 1575.42 MHz (L1 Band, C/A code)
Channels	12 Channel all in view tracking
Chipset	Sony CXD2951GA
Antenna Type	Internal passive patch antenna
Operating Distance	Wireless Communication within 10 meters
Baud rate	9600bps
Regulatory Approval	CE, FCC
Dimensions	72(L) x 40.8(W) x 20.6 (H) mm
Weight	62 g
Environment Operation Temp.	Storage temperature: -30°C ~ 80°C @ Humidity 5 ~ 95% Operating temperature: -20°C ~ 80°C @ Humidity 5 ~ 95%
<b>Sensitivity</b>	
Tracking	-152 dBm typical
Acquisition	-139 dBm typical
<b>Accuracy</b>	
Position	2DRMS:approx. 5m
Velocity	500m/s
Time	1pps
<b>Datum</b>	
Default	WGS-84
<b>Acquisition Rate (Open Sky &amp; Stationary Requirements)</b>	
Reacquisition	0.1s
Hot start	2 sec., average
Warm start	33 sec., average
Cold start	45 sec., average
<b>Dynamic Conditions</b>	
Altitude	<18,000 meters
Velocity	<500 meters/second
Acceleration	<4g
<b>Power</b>	
Main power input	5V DC input
Operational Power	3.3V
Battery Source	1200mAH
Battery Charging Time	2.5 – 3hr.
Operation Current	90 mA Typical
Operation Time	12 hours after fully charge in continuous tracking mode
<b>Bluetooth Specifications</b>	
Chipset	RF: ST STLC2150 BB: ST STLC2415
Frequency Range	2.4 – 2.4835 GHz (2.4 GHz ISM Band)
Bluetooth Profile	Serial Port Profile (SPP) v1.1
Output Power	Class 2 @ range 10m

## Firmware Specification

Core firmware	Ver. 1.0
Baud rate	9600
Code type	NMEA-0183 (V3.01)
Datum	WGS-84
Protocol message & Output frequency	GPGGA (1), GPGSA (1), GPGSV (5), GPRMC (1), GPVTG (1)

## Package Content

### 1. BT112B-GPS: Gift Box Package

- a. BT112B-GPS x 1
- b. Plug-in charger x1
- c. Short lanyard x 1
- d. Long lanyard x1
- e. CD x 1

## Carton information

1. Gift box size: 15.5 cm x 15.5 cm x 4 cm
2. Unit weight: 225g
3. Carton size: 45 cm x34 cm x 34 cm
4. N.W: 9 Kg (40pcs/Carton)
5. G.W: 10 Kg