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## BT-15N

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### Ultra Low Power GPS Bluetooth® Receiver

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#### Introduction

BT-15N Bluetooth GPS Receiver, a total solution of GPS Bluetooth wireless technology, is a dedicated design for users who are usually carrying portable devices, such as PDAs and smart phones, all the time. BT-15N allows 20-hour continuous use with a single AA Alkaline battery or rechargeable AA battery. BT-15N works with all bluetooth smart phones, lap-top computers and PDA, regardless of brand, in an operating range of more than 10 meters. The high performance ultra low power BT-15N is an ideal receiver for strict weather condition.

#### Features

- 16 channels “All-In-View” tracking
- Cold/Warm/Hot start time: 45/38/6 sec. (average)
- Superior sensitivity: -152dBm tracking

- Reacquisition time: 1 sec.
- Ultra low power consumption: 20 hours continuous use by using a single AA Alkaline battery
- Build-in ceramic patch antenna
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- 3 LEDS display all GPS, Bluetooth and power status
- Size: 59.8 (L) X 51.6 (W) X 19.8 (H) mm
- Weight: 62g (battery included)
- Non-slip back pad for a secure placement

## Specifications

### GPS Features

Chipset	NEMERIX
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	16 channels all in view tracking
Antenna (Internal)	Built-in low noise antenna

### Sensitivity

To – 152dBm Tracking, Superior Urban Canyon Performance

### Time to First Fix (TTFF)

Cold Start	45 sec, average
Warm Start	38 sec, average
Hot Start	6 sec, average
Reacquisition	1 sec

### Accuracy

Position	5m CEP (50%), 9m (90%)
Velocity	0.1m/sec, without SA
Time	±100ms synchronized to GPS time

### Power

Single "AA" Alkaline battery, 1.5V	
Operation Current	<45mA (Typical)
Operation Time	Up to 20 hours

### Environmental Characteristics

Operating Temperature	- 10°C to + 60°C
Storage Temperature	- 20°C to + 85°C

### Datum

WGS-84 (or by demand)

### Dynamic Conditions

Altitude	10,000m Max.
Velocity	Hor. 300km/hour; Ver. 36km/hour Max.
Acceleration	2g Max.
Motional Jerk	4m/sec

### Interface

Communication Protocol: Communicate with host platform via Bluetooth (class 2) serial port profile

Bluetooth communication distance 10meters (Typical)

GPS Protocol: Default: NMEA-0183 - GGA, GSA, GSV,

### Device Dimension and Weight

59.8 (L) X 51.6 (W) X 19.8 (H) mm

38g (without battery)

62g (battery included)

### Accessories

Alkaline battery\*1, Car charger, Manual CD

### Certificates

CE, FCC & BQB

