

GPS *Instant* FIX

Product Brief

GPS-BT74R



GPS-BT74R

High Sensitivity GPS Bluetooth® Receiver

GENERAL DESCRIPTION

GPS-BT74R Bluetooth GPS receiver, a total solution of GPS Bluetooth wireless technology, acquires 32 satellites in parallel, provides unbelievable positioning sensitivity and transmitting ability to an easy position-fix from urban or canyon area. GPS-BT74R allows from 12 hours continuous use to stand-by time up to one week with a single battery charge. GPS-BT74R Bluetooth GPS receiver works to all Bluetooth smart phones, lap-top, PDA regardless of brand in an operating range of more than 10 meters. The high performance GPS receiver GPS-BT74R is an ideal receiver to be used in any strict weather condition, so to easily find your way.

APPLICATIONS

- Automotive
- Fleet management/Asset tracking
- Personal/Portable Navigation (PDA, Pocket PC etc.)
- Location Based Services enabled devices
- Sports and Recreation
- Geographic Surveying

KEY PRODUCT FEATURES

- Approx. 45000 effective correlators for fast TTFF and high sensitivity acquisition
- Acquires 32 satellites in parallel
- Superior tracking capability: -157dBm tracking
- Capable of in-door use: <20m (RMS)
- NMEA-0183 V2.2 compatible
- Data rate: 9600/38400bps
- Ultra low power consumption: 12 hours continuous use to stand-by time up to one week by 1000mAh battery
- Time to full recharge: within 3 hours
- 3 LEDS display all GPS, Bluetooth and power status
- Auto power on/off function
- Size: 81.0 (L) X 43.0 (W) X 17.6 (H) mm
- Weight: 70g (battery included)
- Non-slip back pad for a secure placement
- Optional external MMCX antenna
- Car charger, adaptor, and CD driver are included in package

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SPECIFICATIONS

GPS Features

Chipset	RFMD
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	Adaptive, 8 – 32 SVs (best 8 used in solution)
Antenna (Internal)	Built-in low noise antenna
	External Active MMCX Antenna

Sensitivity

To – 157dBm Tracking, Superior Urban Canyon Performance

Time to First Fix (TTFF)

Cold Start	43 sec, average
Warm Start	25 sec, average
Hot Start	4 sec, average
Reacquisition	< 3sec
Update rate	1 sec

Accuracy

Position	Open sky: <5m (RMS) In door: <20m (RMS)
Velocity	0.1m/sec, without SA
Time	±100ns synchronized to GPS time

Power

Built-in rechargeable 1000mAh Li-ion battery and 5V DC input	
Operation Current	<80mA (Typical)
Operation Time	12hrs, fully charged, in continuous mode

Charging time 3.0hrs. (Typical)

Environmental Characteristics

Operating Temperature	- 20°C to + 60°C
Storage Temperature	- 50°C to + 100°C

Datum

WGS-84 (or by demanded)

Dynamic Conditions

Altitude	<18,000m
Velocity	<515m/s
Acceleration	<1G
Motional Jerk	4 m/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 V2.2 - GGA, GSA, GSV,

GLL, RMC, VTG, Baud rate 9600/38400 bps,

Data bit: 8, stop bit: 1(Default)

Device Size and Weight

81.0 (L) X 43.0 (W) X 17.6 (H) mm
3.19 (L) X 1.69 (W) X 0.69 (H) inch
70g (battery included)

Accessories

Car charger (12V in, 5V output)
AC adaptor (5.3V output, 500mA)

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