



BT74A

High Performance High Sensitivity GPS Bluetooth® Receiver

GENERAL DESCRIPTION

GPS-BT74A Bluetooth GPS receiver, a total solution of GPS Bluetooth wireless technology, is dedicated design for the user who is usually carry the portable device such as PDAs/smart phones all the time. GPS-BT74A allows from 24 hours continuous use to stand-by time up to one week with a single battery charge. GPS-BT74A 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 high sensitivity GPS-BT74A 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

- 16 channels "All-In-View" tracking
- Cold/Warm/Hot start time: 34/33/3.5 sec. (average)
- Superior sensitivity: -158dBm tracking
- Reacquisition time: <1 sec.
- Built-in ceramic patch antenna
- Built-in rechargeable Li-ion battery
- Support G-mouse function via USB cable
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Ultra low power consumption: 24 hours continuous use to stand-by time up to one week by 1100mAh battery
- Turn off automatically if no Bluetooth connection in 10 minutes
- Time to full recharge: within 3 hours
- 3 LEDS display all GPS, Bluetooth and power status
- Size: 81.5 (L) X 43.4 (W) X 17.0 (H) mm
- Weight: 62.4g (battery included)
- Non-slip back pad for a secure placement

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Product Brief
BT74A

SPECIFICATIONS

GPS Features

Chipset	Atmel ANTARIS 4
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	16 channels
Antenna (Internal)	Built-in low noise antenna

Sensitivity

To – 158dBm Tracking, Superior Urban Canyon Performance

Time to First Fix (TTFF)

Cold Start	34sec, average
Warm Start	33sec, average
Hot Start	3.5sec, average
Reacquisition	< 1sec
Update rate	1Hz (max.)

Accuracy

Position	2.5m CEP without SA
Velocity	0.1m/sec, without SA
Time	50ns, RMS; < 100ns, 99%

Power

Built-in rechargeable 1100mAh Li-ion battery and 5V DC input

Operation Current	< 45mA (Typical)
Operation Time	24hrs, fully charged, in continuous mode
Charging time	3.0hrs. (Typical)

Datum

WGS-84

Dynamic Conditions

Altitude	<18,000 m (60,000feet)
Velocity	<515 m/s (1000 knots)
Acceleration	<4G
Motional Jerk	20m/sec ³ max.

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, RMC

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

Device Size and Weight

81.5 (L) X 43.4 (W) X 17.0 (H) mm
3.21 (L) X 1.71 (W) X 0.67 (H) inch
62.4g (battery included)

Accessories

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

Environmental Characteristics

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

All specifications are subject to change without notice

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REVISION HISTORY

Revision	Date	Comments
V7.06	27_July_2006	First release
V11.06	03_Nov_2006	Added item: a. support G-mouse function via USB cable b. Turn off automatically if no Bluetooth connection in 10 minutes c. BT74A photo changed