



GPS-BT55

High Performance High Sensitivity GPS Bluetooth® Receiver

GENERAL DESCRIPTION

GPS-BT55 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-BT55 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-BT55S 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: 45/38/6 sec. (average)
- Superior sensitivity: -152dBm tracking
- Reacquisition time: 1 sec.
- Build-in ceramic patch antenna
- Build-in rechargeable Li-ion battery
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Ultra low power consumption: up to 22 hours continuous use by using 710mAh battery
- Time to full recharge: 3 hours
- 2 LEDS display GPS and Bluetooth status
- Size: 61.5 (L) X 43.5 (W) X 20.5 (H) mm
- Weight: 51.4g (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
	External MMCX antenna port

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

Update rate 1 Hz (max.)

Accuracy

Position 5m CEP (50%), 9m (90%)

Velocity 0.1m/sec, without SA

Time ±100ns synchronized to GPS time

Power

Built-in rechargeable 710mAh Li-ion battery and 5V

DC input

Operation Current 33mA (Typical)

Operation Time 22hrs, fully charged, in continuous mode

Charging time 3.0hrs. (Typical)

Datum

WGS-84

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 V3.01 - GGA(1),

GSA(3), GSV(3), RMC(1),VTG(1), baud rate 38400

bps

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

Device Size and Weight

61.5 (L) X 43.5 (W) X 20.5 (H) mm

2.42 (L) X 1.71 (W) X 0.80 (H) inch

51.4g (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

*: (1): 1sec output 1msg, (3): 3sec output 1msg

All specifications are subject to change without notice