



BT-22

High Performance High Sensitivity GPS Bluetooth® Receiver

GENERAL DESCRIPTION

BT-22 Bluetooth GPS receiver, a total solution of GPS Bluetooth wireless technology, is a dedicated design for users who usually carry the portable devices, such as PDA, smart phones, all the time. BT-22 allows from 14 hours continuous use to stand-by time up to one week with a single battery charge. It works with all bluetooth enabled smart phones, lap-top and PDA, regardless of brand, in an operating range of more than 10 meters. High performance and high sensitivity BT-22 is an ideal receiver for any strict environments.

KEY PRODUCT FEATURES

- 20 channels "All-In-View" tracking
- Cold/Warm/Hot start time: 42/38/1 sec. (average)
- Superior sensitivity: -159dBm tracking
- Reacquisition time: 0.1 sec.
- Build-in ceramic patch antenna
- Build-in rechargeable Li-lon battery
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with bluetooth devices with Serial Port Profile (SPP)
- Ultra low power consumption: 14 hours continuous use to stand-by time up to one week by 1100



mAh battery

- Time to full recharge: within 4 hours
- 3 LEDS display all GPS, bluetooth and power status
- Size: 81.0 (L) X 43.0 (W) X 17.6 (H) mm
- Weight: 60g (battery included)
- Non-slip back pad for secure placement

SPECIFICATIONS

GPS Features	Datum

Chipset SiRF Star III WGS-84

Frequency L1, 1575.42MHz **Dynamic Conditions**

C/A Code 1.023MHz chip rate Altitude <18,000m

Channels Supports 20 channels Velocity <515m/s

Antenna (Internal) Built-in low noise antenna Acceleration <4G

Motional Jerk 4m/sec

Sensitivity Interface

To - 159dBm Tracking, Superior Urban Canyon Communication Protocol: Communicate with host

Performance platform

Time to First Fix (TTFF) via Bluetooth (class 2) serial port profile

Cold Start 42 sec, average Bluetooth communication distance 10meters (Typical)

Warm Start 38 sec, average GPS Protocol: Default: NMEA-0183 - GGA, GSA, GSV,

Hot Start 1 sec, average GLL, RMC, VTG

Reacquisition 0.1 sec Data bit: 8, stop bit: 1(Default)

Update rate 1 Hz (max.)

Accuracy Device Size and Weight

Position 5 – 25m CEP without SA 81.0 (L) X 43.0 (W) X 17.6 (H) mm

Velocity 0.1m/sec, without SA 3.19 (L) X 1.69 (W) X 0.69 (H) inch

Time 1μs synchronized to GPS time 60g (battery included)

Power Accessories

Built-in rechargeable 1100mAh Li-lon battery and 5V

DC input

Car charger (12V in, 5V output)

Operation Current <75mA (Typical) AC adaptor (5.3V output, 500mA)



14hrs, fully charged, in continuous

Operation Time

mode

Charging time 4.0hrs. (Typical)

Environmental Characteristics

Operating Temperature - 10°C to + 60°C

Storage Temperature - 20°C to + 85°C





Accessories Package