

High Sensitivity i-Geo Bluetooth GPS Receiver

- Built-in SiRF starIII chipsets receivers give unparalleled GPS performance and precision.
- Built-in WAAS / EGNOS Demodulator.
- 20 parallel satellite-tracking channels for fast acquisition and reacquisition.
- Compatible with Bluetooth Serial Port Profile (SPP) completely.
- Low power consumption, small, and lightweight design easily fits in your hand, only 74mmx 43mm.
- Built-in rechargeable battery for backup memory and RTC.
- Four LEDs showing Bluetooth, GPS, battery and power charge status.
- Support NMEA0183 data protocol.
- Enhanced algorithms providing superior navigation performance in urban, canyon and foliage environments.
- For Car Navigation, Marine Navigation, Fleet Management, AVL and Location-Based Services, Auto Pilot,
- Personal Navigation or touring devices, Tracking devices/systems and Mapping devices application.



SPECIFICATIONS

Receiver:	Tracking up to 20 satellites L1, 1575.42MHz, C/A code
Accuracy:	Position: 2DRMS approximately 5m, WAAS SUPPORT Velocity: 0.1 m/sec without SA imposed Time: $\pm 1 \mu$ sec
Acquisition Time:	Cold start: 42 sec (Average) Warm start: 38 sec (Average) Hot start: 1 sec (Min.)
Sensitivity:	Acquisition: -148 dBm Tracking: -159 dBm
Dynamics:	Altitude: 18,000m (Max.) Velocity: 515m/sec (Max.) Acceleration: $\pm 4g$ (Max.)
Navigation update rate :	Once per second
Bluetooth:	Bluetooth version 1.2 compliant Bluetooth Class 2 operation (up to 10meter range)
Baud Rate :	4800bps
Output Message:	NMEA 0183 GGA, GSV, GSA, RMC, (optional VTG, GLL)
Datum:	WGS 84
Battery Lifetime :	Li-ion Rechargeable battery: 10Hrs (Typical)
Power Consumption :	Typical : 140mA @ 3.3V.
LED Function:	Red: GPS Blue: Bluetooth Link Green: Battery Charging. Yellow: Battery Low.
Operating Temp.:	-20°C ~ +60°C
Storage Temp.:	-30°C ~ +80°C
Humidity:	5% ~ 95%
Antenna Type:	Built-in Patch Antenna.
Dimension:	74mm x 43mm x 21mm