

i-Blue820

Ultra-slim GPS receiver



Overview

At just 10mm thick, the i-Blue 820 Bluetooth GPS receiver is one of the world's thinnest models. Equipped with a 51-channel MTK chipset, it provides ultra-high sensitivity - 158dBm tracking and -144dBm signal acquisition. By coupling smart power-saving options with fuzzy auto on/off, it's also the most power-efficient receiver available. Ultra-thin, highly sensitive and super-efficient, this device enjoys wide consumer appeal.

Key Features

- *51-Channel Bluetooth GPS*
- *Ultra high sensitivity up to -158 dBm (Tracking)*
- *Smart Power Save Mechanism*
- *Fuzzy Auto On/Off*
- *Slim & fashion look*

Application

- *Automotive.*
- *Fleet management / Asset tracking.*
- *Personal / portable Navigation (PDA, Smart phone).*
- *Location Based Services.*
- *Sports and Recreation.*
- *Geographic Surveying*

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Wireless GPS Receiver

Specifications

General

Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	51 CH for tracking
Antenna	Built-in patch with LNA
Datum	WGS-84

Acquisition

Cold Start	36 sec, average
Warm Start	33 sec, average
Hot Start	1 sec, average
Reacquisition	<1 sec

Accuracy (none DGPS)

Position	Without aid: 3.0m 2D-RMS DGPS:2.5m,2D-RMS
Velocity	Without aid: 0.1m/s DGPS:0.05m/s
Sensitivity	-158 dBm (tracking)

Dynamic

Altitude	< 18,000m
Velocity	< 515m/sec
Acceleration	4g

Protocol

GPS Output	NMEA-0183 (V3.01) – GGA, GSA, GSV, RMC
	Data bit : 8, stop bit : 1(Default)

Interface

Bluetooth™	Version 1.2 compliant
Output Power	Class 2 (over 10 meter in free space)
Frequency	2.4 to 2.48 GHz

Power

Battery	LiIon 750mAh
Charging Time	3 hrs (Typical)
Operation Time	18hrs
Standby Time	250hrs
Power On/Off	Push button
Power Charge	Mini USB

Environmental

Operating	- 10 °C to + 60 °C
Storage	- 20 °C to + 60 °C
Charging	0 °C to + 45 °C
Humidity	5% to 90% non-condensing

Physical

Dimension	93.5 x 46 x 10.8mm
Weight	49.5g

Others

Certification	CE / FCC
LED	Bluetooth, Navigation, Log, Battery / charger status

*Bluetooth is a trademark owned by Bluetooth SIG, Inc.

*Specifications subject to change without prior notice.

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