



The best of the best High-Accuracy

GNSS Receiver Designed Specifically for the iPad/iPhone

The iSXBlue II+ GNSS is a palm-sized receiver that delivers real-time, high accuracy performance using GPS/GLONASS satellites and free SBAS corrections for your iPad/iPhone. It's battery-powered lightweight design makes it the ideal choice of a variety of mapping apps including GIS, Forestry, Mining, Utilities, Agriculture, Surveying and Environmental, at a price you can afford.

Go Real-time, All the Time with your iPad/iPhone!

The iSXBlue II+ GNSS uses innovative technologies that delivers high accuracy in real time, all the time. There is no need for post processing or other correction source when SBAS (WAAS, EGNOS, MSAS or GAGAN) are available. Utilizing both GPS and GLONASS satellites, the iSXBlue II+ GNSS will work where GPS receivers struggle, such as in the forest, around buildings and other difficult mapping environements. The iSXBlue II+ GNSS is designed to work where you need to work; in the forest or in the city, all day long.

GPS + GLONASS + SBAS = Revolutionary iSXBlue II + GNSS Receiver

Until now, SBAS users couldn't enjoy the tremendous benefit offered by adding GLONASS satellites since SBAS doesn't support GLONASS. However, new tehnology employed by the iSXBlue II+ GNSS allows it to use both GPS and GLONASS satellites for high-perfomance, real-time mapping accuracy using SBAS. No post-processing is needed to achieve the accuracy you expect.

Work in More Places than Ever Before

We've heard it over and over. Once you start using GLONASS, you'll be addicted. By using GLONASS

satellites, your productivity immediately improves. With both GPS and GLONASS satellites, you'll have nearly twice as many satellites in view, meaning you won't have to wait for the high accuracy data you want. The iSXBlue II+ GNSS maximizes your productivity by working directly within your iOS application such as Esri's Collector for ArcGis, ArcGis for iOS, TerraGo, Amigo, Cloud, iGeoTrack, ICMT Gis, Fulcrum, etc.

A Long Term Solution

Because the iSXBlue II+ GNSS doesn't have a built-in computer, it can't become obsolete. On one project, connect it to your iPhone. On the next project, connect it to your iPad. Android? Windows Mobile? Yes, the iSXBlue II+ GNSS is compatible with those mobile devices too. It just keeps delivering high accuracy positioning to whichever device you want to connect to it using Bluetooth, mini USB or RS-232.

Key Features:

- 100% iPad / iPhone Compatible
- Win Mobile / Android Compatible
- SBAS support for GPS and GLONASS
- High accuracy
- Beidou / Galileo / QZSS Ready

Specifications

GNSS Sensor _

L1/G1, GPS + GLONASS with carrier smoothing Receiver Type:

(BeiDou, Galileo and QZSS optional)

372 channels Channels:

3-channel, parallel tracking SBAS Support: WAAS, EGNOS, MSAS, GAGAN

SBAS ranging

GPS Sensivity: -142 dBm

Update Rate: 1 Hz (optional 10 or 20 Hz)

DGNSS Horizontal Accuracy: < 60cm 2dRMS, 95% confidence

(< 30cm HRMS, < 25cm CEP)

< 2.5m 2dRMS, 95% confidence

(autonomous, no SA) 2

< 20cm 2dRMS, 95% confidence 3 Optional Proprietary RTCM:

> 1 to 3cm + 1 ppm (Horizontal) 2 to 6cm + 1 ppm (Vertical) 1

60 sec typical (no almanac or time)

Reacquisition: < 1 sec

1 850 kph / 1 150 mph / 999 knots Maximum Speed:

Maximum Altitude: 18 288m (60 000 ft)

Post-processing:

Horizontal Accurracy:

Optional RTK:

Cold Start:

5 mm + 0.5 ppm (Static) or better Horizontal Accuracy1:

10 mm + 1 ppm (Kinematic) or better

Vertical Accuracy1: 5 mm + 1.0 ppm (Static) or better

20 mm + 1 ppm (Kinematic) or better

Communication _

Bluetooth 2.1, RS-232C USB 2.0 Port:

Bluetooth Transmission: Class 1 (Long Range)

iAP and 2.1 EDR

Fully Bluetooth pre-qualified: Bluetooth 2.1

Apple-approved, authenticated **Baud Rates:**

4800 to 115200 Data I/O Protocol: NMEA 183, RTCM 104, Binary

Timing Output: 1 PPS (HCMOS, active high,

rising edge sync, 10 pF load Binary (free RINEX utility)

Raw Measurement Data: RTCM , ROX Format, RTCM V 2.3, RTCM V 3.2 Correction I/O Protocol:

CMR, CMR+

Power, lock, DGPS position Led mode indicators:

DIFF lock, Bluetooth connection

Battery Status LED: 5 LED's bar graph

Power

Battery Type: Field replaceable Lithium-Ion pack (Rechargeable inside unit or separatly)

3,900 mAh. 7.2V

Battery Capacity: Battery Life: +8 hours

< 3.5W Power Consumption:

Charging Time: 4 to 5 hours (with supplied charger)

Antenna Voltage Output: 5 VDC Antenna Input Impedance: 50 Ohms

Environmental

Operating Temperature: -40°C to +85°C (-40°F to +185°F) 5 -40°C to +85°C (-40°F to +185°F) Storage Temperature:

Humidity: 95% non-condensing Compliance: FCC, CE, RoHS and Lead-free

Mechanical .

Enclosure Material: Re-enforced Nylon

Battery Case Material:

Enclosure Rating: Waterproof, IP-65

14.1 x 8.0 x 4.7 cm (5.57 x 3.15 x 1.85 in.) **Enclosure Dimensions:**

487g (1.07 lb) Weight: Data Connectors: DB-9 Female

USB Type B Female Antenna Connector: **SMA Female**

Antenna .

Frequency Range: L1, G1, L-Band (1525 MHz - 1,607 MHz)

26 dB (+/- 2 dB), 35 mA Gain (without cable): Voltage: + 4.5 to 15 VDC

Impedance: 50 Ohms

Dimensions: 6.6 diam. x 2.7 cm (2.61 x 1.05 in.)

Weight (without cable): 114g (0.25 lbs)

(with removable magnet mount) Antenna Connector:

SMA Female

Temperature: -55°C to +70°C (-67°F to +158°F)

Immersion 1 meter

Standard Accessories _____

• iSXBlue II+ GNSS Receiver

• Li-Ion Battery Pack (Field replaceable)

· Li-Ion Charger

Humidity:

• Belt/Shoulder Carrying Case

• Precision Antenna with 1.5m cable

· Soft Hat for antenna

• RS-232 Cable (6 ft.)

• USB Type A/B Cable (6 ft.)

Field Activated Options

• 10Hz Output Rate

NOTES:

- Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities.
- Depends on multipath environment, number of satellites in view, satellite geometry and
- Option required on both base and rover. Also requires communication link between base and rover. Transmission in free space.
- Lithium- Ion battery performance degrades bellow -20°C (-4°F)

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10700, Secant St., Montreal (QC), H1J 1S5, Canada P: +1.514.354.2511 1.800.463.4363 (Canada and USA) F: +1.514.354.6948 E: info@geneq.com

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VEQ inc. www.sxbluegps.com www.geneg.com