

iSXBlue II+ GNSS



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/Beidou 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. 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 environments.

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 technology employed by the iSXBlue II+ GNSS allows it to use both GPS and GLONASS satellites for high-performance, 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.

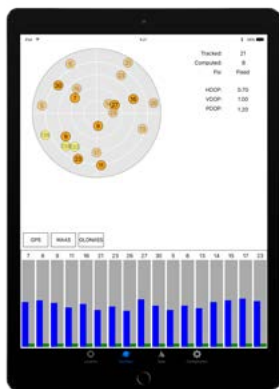
With both GPS and GLONASS satellites, you'll have nearly twice as many satellites in view, meaning you won't have to wait for the high accuracy data you want. The iSXBlue II+ GNSS maximizes your productivity by working directly within your iOS application such as Esri's Collector for ArcGis, ArcGis for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

Key Features

- 100% iPad / iPhone Compatible
- Win Mobile / Android Compatible
- SBAS support for GPS and GLONASS
- High accuracy
- Beidou
- USB and RS - 232 ports



iSXBlue RTN, RTK app for iOS

Our NTRIP Client App for iOS works with all iSXBlue receivers. Use iSXBlue RTN alongside other GIS and Surveying Apps to obtain Real-Time cm* accuracy on your iPhone or iPad. Key features include RTK alarm configurations with NTRIP and DIP Modes. The App allows you to update your receiver with the latest firmware. Other features include Real-Time Map Location with accuracy and satellite SkyPlot for GPS, GLONASS and SBAS.

* Requires RTK activation

Specifications

GNSS Sensor

Receiver type:	GNSS (GPS/GLONASS/Beidou) L1 with carrier phase
Channels:	372
SBAS Support:	3 channels parallel tracking WAAS/EGNOS/MSAS/GAGAN (with SBAS ranging)
GPS Sensivity:	-142 dBm
Update Rate:	1 Hz (optional 10 or 20 Hz)
DGNSS Horizontal Accuracy:	< 60cm 2dRMS, 95% confidence ¹ (< 30cm HRMS, < 25cm CEP)
Horizontal Accuracy:	< 2.5m 2dRMS, 95% confidence (autonomous, no SA) ²
Optional Proprietary RTCM:	< 20cm 2dRMS, 95% confidence ³
Optional RTK:	1 to 3 cm + 1 ppm (Horizontal) ¹ 2 to 6 cm + 1 ppm (Vertical) ¹
Cold Start:	60 sec typical (no almanac or time)
Reacquisition:	< 1 sec
Maximum Speed:	1 850 kph / 1 150 mph / 999 knots
Maximum Altitude:	18 288m (60 000 ft)
Post-processing:	
Horizontal Accuracy ¹ :	5 mm + 0.5 ppm (Static) or better 10 mm + 1 ppm (Kinematic) or better
Vertical Accuracy ¹ :	5 mm + 1.0 ppm (Static) or better 20 mm + 1 ppm (Kinematic) or better

Communication

Port:	Bluetooth 2.1, RS-232C, USB 2.0
Bluetooth Transmission:	Class 1 (Long Range) iAP2 and 2.1 EDR
Fully Bluetooth pre-qualified:	Bluetooth 2.1 Apple-approved, authenticated
Baud Rates:	4 800 to 115 200
Data I/O Protocol:	NMEA 0183, RTCM 104, Binary
Timing Output:	1 PPS (HCMOS, active high, rising edge sync, 10 pF load)
Raw Measurement Data:	Binary (free RINEX utility)
Correction I/O Protocol:	RTCM , ROX Format, RTCM V 2.3, RTCM V 3.2, CMR, CMR+
LED mode indicators:	Power, lock, DGPS position DIFF lock, Bluetooth connection
Battery Status LED:	5 LED's bar graph

Power

Battery type:	Field replaceable Lithium-Ion pack (Rechargeable inside unit or separately)
Battery capacity:	3,900 mAh 7.2 V
Battery life:	+ 8 hours
Power Consumption:	< 3.5 W
Charging time:	5 hours (with supplied charger)

Environmental

Operating Temperature:	-40°C to +85°C (-40°F to +185°F)
Storage Temperature:	-40°C to +85°C (-40°F to +185°F)
Humidity:	95% non-condensing
Compliance:	FCC, CE, RoHS and Lead-free

Mechanical

Enclosure material:	Re-enforced Nylon
Battery case material:	ABS
Enclosure rating:	Waterproof, IP65
Dimensions:	14.1 cm x 8.0 cm x 4.7 cm 5.57 in x 3.15 in x 1.85 in
Weight:	487 g (1.07 lbs)
Data Connectors:	DB-9 female, USB Type B female
Antenna connector:	SMA female
Drop Resistance :	Designed to withstand 1 m drop

Antenna

Frequency Range:	L1, G1, L-Band (1525 MHz - 1,607 MHz)
Gain:	26 dB (+/- 2 dB), 35 mA
Voltage:	+ 4.5 to 15 VDC
Impedance:	50 Ohms
Dimensions:	6.6 cm x 2.7 cm (2.6 in 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)
Humidity:	Waterproof

Standard Accessories

- iSXBlue II⁺ GNSS Receiver
- Li-Ion Battery Pack (Field replaceable)
- Li-Ion Charger
- Belt/Shoulder Carrying Case
- Soft Hat for antenna
- Precision Antenna with 1.5 m cable
- RS-232 Cable (6 ft)
- USB Type A/B Cable (6 ft)

Field Activated Option

10 Hz or 20 Hz Output rate

NOTES:

1. Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities. Stated accuracies for baseline lengths of up to 50 km.
2. Transmission in free space.
3. Free options available on serial port upon request.
4. Lithium-Ion battery performance degrades below -20°C (-4°F).

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