iSXBlue II GNSS

The first 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 innovatives technologies that delivers high accuracy in real time, all the time. There is no need for post processing or order 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 building 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 user couldn't enjoy the tremendous benefit offered by adding GLONASS satellites since SBAS doesn't support GLONASS. However, now tehnology employed by the iSXBlue II GNSS allow 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, iCMTGIS, iGPSGIS, GIS Pro, 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, USB or RS-232.

Key Features:

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

Specifications

GNSS Sensor

Receiver Type:	L1/G1, GPS + GLONASS
Channels:	36-channel, parallel tracking
SBAS Support:	3-channel, parallel tracking
	WAAS, EGNOS, MSAS, GAGAN
	SBAS ranging
Update Rate:	Up to 10 Hz, optional 20 Hz
DGNSS Horizontal Accuracy:	< 60cm 2dRMS, 95% confidence[1]
	(< 30cm HRMS, < 25cm CEP)
Horizontal Accurracy:	< 2.5m 2dRMS, 95% confidence
	(autonomous, no SA)[2]
Optional Proprietary RTCM:	< 20cm 2dRMS, 95% confidence[3]
Optional RTK:	1 to 3cm + 1 ppm (Horizontal)[1]
	2 to 6cm + 1 ppm (Vertical)[1]
Cold Start:	60s typical (no almanac or time)
Reacquisition:	< 1s
Maximum Speed:	1 850 kph / 1 150 mph / 999 knots
Maximum Altitude:	18 288m (60 000 ft)

Communication

Port:	Bluetooth 2.1, RS-232C, USB 2.0
Bluetooth Transmission:	Class 2 (15m Range)[4]
	iAP and 2.1 EDR
Bluetooth Frequency:	2.400 - 2.485 GHz
Fully Bluetooth pre-qualified:	Bluetooth 2.1
	Apple-approved, authenticated
Baud Rates:	4 800 to 460 800
Data I/O Protocol:	NMEA 183, 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 , Optional roprietary format
GNSS Status LED:	Power, GNSS 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. 7.2V
Battery Life:	8 + hours
Power Consumption:	< 3.5W
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]
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, IP-67
Immersion:	30cm, 30 minutes
Enclosure Dimensions:	14.1 x 8.0 x 4.7 cm (5.57 x 3.15 x 1.85 in.)
Weight:	487g (1.07 lb)
Data Connectors:	DB-9 Female
	USB Type B Female
Antenna Connector:	SMA Female

Antenna

Frequency Range:	L1, G1, L-Band (1525 MHz - 1607 MHz)
Gain (without cable):	26 dB (+/- 2 dB), 35 mA
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
Finish:	Fluid Resistant
Temperature:	-55°C to +70°C (-67°F to +158°F)
Humidity:	Immersion 1 meter

Standard Accessories

iSXBlue II GNSS Receiver
Li-Ion Battery Pack (Field replaceable)
Li-Ion Charger
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.)
CD-ROM (manuals and utilities)

Field Activated Options

20Hz Output Rate
Base Station RTCM Output
Proprietary Real-time for <20cm
L1/G1 RTK for 1-3cm[1]

NOTES :

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

Authorized Distributor