

# SXblue

PLATINUM



## The Ultimate Survey Grade GNSS Receiver Designed for GIS Application



- GPS, GLONASS, Galileo, BeiDou, QZSS and SBAS
- Triple-frequency L1-L2-L5.
- Bluetooth connectivity. Compatible with all devices
- 1 cm RTK accuracy, long-range RTK baseline with fast acquisition times.
- aRTK™ and Tracer™ provide positioning sustainability if the GSM fails.
- Atlas™ Global satellite correction service.

Powered by its 394 channels, the SXblue Platinum uses all-in-view constellations with triple frequency and it offers the ability to use a global or local coverage of corrections (SBAS, L-Band and RTK).

The new receiver is the same, compact, lightweight, palm-sized unit as the SXblue product series, which is completely dustproof and ruggedized. The internal, rechargeable, field replaceable Li-Ion battery has on-board LEDs for easy access battery life information.

With the scalable SXblue Platinum Basic, the user can activate at anytime any frequency or constellation after its initial purchase. The receiver is also field upgradable which, means that you can activate these options remotely at your convenience.

Atlas delivers its correction signals via L-band or it can stream data over the internet (NTRIP) at accuracies ranging from meter to sub-decimeters levels ensuring the best available vertical and horizontal accuracy.

With a wide variety of compatible software and mobile devices, our team can help you choose the perfect solution for your applications such as agriculture, engineering, mining, utilities, surveying, GIS...

Some of the many compatible softwares such as ESRI Collector, ArcPad, Fulcrum, TerraGo Edge, and MicroSurvey FieldGenius and many others.

iSXBlue RTN, a free iOS application for NTRIP/DIP configuration, is available on the App Store.



# SPECIFICATIONS

## RECEIVER

Type	GNSS triple-frequency RTK with carrier phase
Signal	GPS - L1CA, L1P, L1C, L2P, L2C, L5 GLONASS - G1, G2, P1, P2 BeiDou - B1, B2, B3 Galileo - E1BC, E5a, E5b QZSS - L1CA, L2C, L5, L1C
Channels	394
SBAS	3 satellites parallel tracking WAAS/EGNOS/MSAS/GAGAN
L-Band - Atlas	Single channel
Update rate	1 Hz (option 10 Hz and 20 Hz)
RTK Accuracy	8 mm + 1 ppm (RMS) Horizontal
SBAS Accuracy	< 30 cm HRMS <sup>1</sup>
Autonomous Accuracy	1.2 m HRMS <sup>1</sup>
Cold start	< 60 sec (typical no almanac or RTC)
Reacquisition	< 1 sec
Max speed	1850 kph (999 knots)
Max altitude	18 288 m (60 000 ft)
Differential options	SBAS Autonomous, External RTCM, RTK, L-Band (Atlas) DGPS

## POWER

Battery type	Field replaceable, rechargeable Lithium-Ion pack (Rechargeable inside unit or separately)
Battery life	10+ hours <sup>3</sup>
Charging time	4-5 hours using supplied charger

## ENVIRONMENTAL

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

## STANDARD ACCESSORIES

- Li-ion Battery pack (field replaceable)
- Li-ion charger
- A/B type USB cable (1,8 m - 6 pi)
- RS-232 cable (1,8 m - 6 pi)
- L1/L2/L5, L-Band GNSS antenna
- Antenna cable coaxial type
- Pole mounting bracket
- Hard shell carrying case



Standard Antenna



Survey Antenna



Hard Shell Case

### NOTES :

<sup>1</sup> 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.

<sup>2</sup> Transmission in free space.

<sup>3</sup> Lithium-ion battery performance degrades below -20°C (-4°F).

## COMMUNICATION

Ports	Bluetooth 2.0, RS-232C, USB 2.0
Bluetooth	Class 1 (Typical range of 250 m) <sup>2</sup>
Baud rates	4800 - 115200
Data I/O formats	NMEA 0183, Binary
Timing Output	Free option, available on request
Event Marker Input	Free option, available on request
Raw Measurement Data	Binary (Free RINEX utility)
Correction I/O Protocol	RTCM 2.3, RTCM 3.2, CMR, CMR+, ROX Format
LED mode indicators	Power, GNSS lock, DGPS position, DIFF lock, Bluetooth connection
LED battery indicators	5 LED

## MECHANICAL

Enclosure material	Re-enforced Nylon
Enclosure rating	Waterproof, dustproof, IP65
Battery case material	ABS
Dimensions	14.1 cm x 8.0 cm x 4.7 cm (5.57" x 3.15" x 1.85")
Weight	481 g (1.06 lbs)
Data Connectors	DB-9 female, USB Type B female
Antenna connector	SMA female

## GNSS ANTENNA

GNSS Freq Range	L-Band, GPS L1 : 1.525 – 1.610 MHz; GPS L2 : 1.217 – 1.260 MHz
Impedance	50 Ohms
Gain	28 dB ± 2 dB
Noise Figure	2.5 dB
Voltage/Current	+4.5 à +5.5 Vcc
Connector	SMA female
Dimensions (H x D)	26.6 mm x 66.3 mm (0.86 in x 2.6 in)
Weight	125 g (0.363 lb)
Temperature	-55°C to +70°C (-67°F à +158°F)
Humidity	Waterproof

Authorized Distributor