

# SXblue PLATINUM



## The Ultimate Survey Grade GNSS Receiver for 1 cm RTK GIS Application

Powered by its 372 channels, the SXblue Platinum uses all-in-view constellations with multi-frequency and it offers the ability to use a global or local coverage of corrections (SBAS, L-Band Atlas and RTK). With our free software utilities, you will get RTK 1 cm solution on most apps such as ESRI Collector, Survey 123, ArcPad and many others on all platforms.



### Key Features

- GPS, GLONASS, Galileo, BeiDou, QZSS and SBAS
- Multi-frequency L1-L2-L5
- 1 cm RTK accuracy, long-range RTK baseline up to 50km with fast acquisition time
- aRTK™ and Tracer™ provide positioning sustainability when RTK correction fails with poor cell coverage
- Atlas™ Global satellite correction service compatible
- >12 hours battery life with Bluetooth, GNSS, and RTK activated
- iOS, Android and Windows compatible

### Scalable Solution

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

Don't have a RTK Network nearby, no problem we get covered, with our flexible satellite correction service.

### Scalable Service Levels

- Atlas Basic: 50 cm 95% (30 cm RMS)
- H30: 30 cm 95% (15 cm RMS)
- H10: 10 cm 95% (4 cm RMS)



# SPECIFICATIONS

## SXblue Platinum RECEIVER

GNSS Tracking	GPS - L1CA, L1P, L1C, L2P, L2C, L5 GLONASS - G1, G2, P1, P2 BeiDou - B1, B2 Galileo - E1BC, E5a, E5b QZSS - L1CA, L2C, L5, L1C
Channels	372
SBAS	3 satellites parallel tracking WAAS/EGNOS/MSAS/GAGAN
L-Band - Atlas	Single channel
Update rate	1 Hz (option 10 Hz, 20 Hz and 50 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	1,850 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, Lithium-Ion pack (Rechargeable inside unit or separately)
Battery Capacity	6000 mAh, 7.2V
Battery life	>12 hours <sup>2</sup> Bluetooth, GNSS/RTK
Charging time	6 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

## BASIC INCLUDED ACCESSORIES



### 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> Lithium-Ion battery performance degrades below -20°C (-4°F).

## COMMUNICATION

Port	Bluetooth, RS-232C, USB 2.0
Bluetooth Transmission	Class 1 (Long Range)
Bluetooth pre-qualified	Bluetooth 2.1 + EDR Apple-approved, authenticated
Baud rates	4,800 - 115,200
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's bar graph

## MECHANICAL

Enclosure material	Re-reinforced 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
Drop Resistance	Designed to withstand 1 m drop

## ANTENNA GNSS

Freq Range	L-Band, GPS L1 : 1525 MHz – 1606 MHz; GPS L2/L5 : 1164 MHz – 1254 MHz
Gain	32 dB ± 3 dB
Dimensions (H x D)	69 mm x 22 mm (2.72 in x 0.9 in)

## SURVEY

Freq Range	L-Band, GPS L1 : 1525 MHz – 1606 MHz; GPS L2/L5 : 1164 MHz – 1254 MHz
Gain	32 dB ± 3 dB
Dimensions (R x H)	73 mm x 85 mm (2.87 in x 3.35 in)

## SURVEY ACCESSORIES



Survey Antenna



Hard shell Case

Authorized Distributor