

SXblue AG

PLATINUM



The Ultimate Multi GNSS with L-Band Receiver Designed for Agriculture, Machine Control and Base Stations



- GPS, GLONASS, Galileo, BeiDou, QZSS and SBAS
- Triple-frequency L1-L2-L5.
- Bluetooth connectivity and RS-232
- 1 cm RTK accuracy, long-range RTK baseline with fast acquisition time.
- aRTK™ and Tracer™ provide positioning sustainability if the GSM fails.
- Atlas™ Global satellite correction service.
- Update rate up to 50 Hz (option)

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

The new receiver is compact, lightweight, completely dustproof and ruggedized.

With the scalable SXblue Platinum AG Basic, the user can activate at anytime any options 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, our team can help you choose the perfect solution for your applications such as precision agriculture, machine control, forestry operations, permanent base stations and surveying.



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 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, 20 Hz and 50 Hz)
RTK Accuracy	8 mm + 1 ppm (RMS) Horizontal
SBAS Accuracy	< 30 cm HRMS ¹
Autonomous Accuracy	1.2 m HRMS ¹
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

Input Voltages	12 VDC (9 to 18 VDC), or 24 VDC (18 to 36 VDC)
Average Power Consumption	5 Watts
Average Current Consumption	420 mA @ 12 V (5 Watts) 195 mA @ 24 V (4.7 Watts)

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

STANDARD ACCESSORIES

- 3 m Cable Fused Power
- RS-232 Cable (6 ft)
- L1/L2 Antenna with 3.5 m cable



Standard Antenna



Survey Antenna (option)

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.

COMMUNICATION

Ports	Bluetooth 2.0, RS-232C
Bluetooth	Class 1 (Typical range of 250 m) ²
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

MECHANICAL

Enclosure material	Environmentally sealed powder-coated aluminium
Enclosure rating	Waterproof, IP67
Immersion	30 cm, 30 minutes
Overall Dimensions	14.20 x 8.54 x 3.53 cm (5.59 x 3.36 x 1.39 in)
Enclosure Dimensions	11.26 x 8.54 x 3.53 cm (4.43 x 3.36 x 1.39 in)
Weight	268g (0.6 lbs)
Data Connectors	3-pin weathertight
Antenna connector	BNC Female, straight

STANDARD 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 to +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 to +158°F)
Humidity	Waterproof

FIELD ACTIVATED OPTION

- 10 Hz Output Rate
- 20 Hz Output Rate
- 50 Hz Output Rate
- Multi-GNSS
- Multi-frequency
- Atlas Service Correction

Authorized Distributor