SXblue

KEY FEATURES

- High performance tracking with all in-view constellations
- Multi-frequency satellite signals
- 0.6 cm RTK accuracy
- Multiple functionalities on WIFI, e.g.: NMEA, Processing RTK connections, up to 100Hz
- Ultra-low power consumption
- >12-hour battery life with Bluetooth, GNSS, and RTK activated
- iOS, Android and Windows compatible

The SXblue GLOBE

offers new GNSS performances for all GIS and Survey field operations

The SXblue GLOBE now offers all professionals a proven solution with highest performance and efficiency, even in the toughest field conditions.

Powered by a new GNSS engine with 448 channels, the SXblue GLOBE uses all in-view constellations with multi-frequency signals and offers the ability to use global or local coverage of correction services (SBAS and RTK). With a web-based software utility, the configuration is easier on all platforms: iOS, Windows or Android. Running advanced interference and multipath mitigation technologies, all field operations will benefit from this updated solution on most mobile GIS and Survey applications.

Some improved performances include patented technologies

- Anti-jamming and interference monitoring system
- Innovative scintillation mitigation
- Multipath estimator for code and phase multipath mitigation
- RAIM (Receiver Autonomous Integrity Monitoring)
- Higher tracking ruggedness under heavy mechanical shocks or vibrations

WIFI   > 12-hour   MADE IN CANADA

SPECIFICATIONS

SXblue GLOBE RECEIVER

Channels	448[1]
GPS	L1C/A, L1C, L1PY, L2C, L2P, L5
GLONASS	L1CA, L2CA, L2P, L3 CDMA
Beidou	B1I, B1C, B2a, B2I, B3[1,2]
Galileo	E1, E5a, E5b, E5 AltBoc, E6[1,2]
QZSS	L1C/A, L1C, L2C, L5, L6[1,2]
Navic	L5
SBAS	EGNOS, WAAS, GAGAN, MSAS, SDCM (L1, L5)
On module L-band	
4-constellation RTK (base and rover)[2]	
RAIM (Receiver Autonomous Integrity Monitoring)	
PPP SECORX[1,2]	
Moving base RTK[3]	

PERFORMANCE

Positioning Mode Accuracy	Horizontal	Vertical
Standalone[4,5]	1.2 m	1.9 m
SBAS[4,5]	0.6 m	0.8 m
DGNSS[4,5]	0.4 m	0.7 m
RTK[4,5,6]	0.6 cm + 0.5 ppm	1 cm + 1 ppm
SECORX (PPP)[2,7]	0.04 m	0.06 m
Velocity accuracy	3 cm/s	
RTK Initialization time	7 s[4,5,6]	
Update rate	max 100 Hz	
Latency[8]	<10 ms	
Timing xPPS output	5 ns	
Event accuracy	<20 ns	
Cold start	<45 s	
Warm start	<20 s	
Re-acquisition	1 s	

ANTENNA (GNSS & RTK)

Frequency Range	L1: 1.525 – 1.606 MHz; L2/L5: 1 164 MHz – 1 254 MHz
Gain	32 dB ± 3 dB
Dimensions	69mm x 22mm (2.72 in x 0.9 in)

COMMUNICATION

Ports	Bluetooth 2.0, RS-232C, USB 2.0
Bluetooth transmission	Class 1 (Long range)
Bluetooth pre-qualified	Bluetooth 2.1 + EDR, Apple-approved, authenticated
Baud rates	up to 4Mbps
Data I/O formats	NMEA 0183 v2.3, v3.01, v4.0, Binary (SBF), RINEX v2.x, 3.x
Event Marker Input	2 Event markers
Correction I/O Protocol	RTCM 2.x, RTCM 3.x, CMR v2.0 and, CMR+
LED mode indicators	Power, GNSS lock, DGPS position, DIFF lock, Bluetooth connection
LED battery indicators	5-LED bar graph

POWER

Battery type	Field replaceable, Lithium-Ion pack (Rechargeable inside unit or separately)
Battery capacity	6000 mAh, 7.2V
Battery life	>12 hours using GNSS/RTK and Bluetooth
Charging time	6 hours using supplied charger

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
Drop resistance	Designed to withstand 1m drop

ENVIRONMENTAL

Operating Temperature	- 40°C à + 85°C (- 40 °F à +185 °F)
Storage Temperature	- 55°C à + 85°C (- 67 °F à +185 °F)
Humidity	95 % non-condensing
Compliance	FCC, CE, RoHS, WEEE and Lead-free

Notes:

[1] Configuration dependent
[2] Service subscription required
[3] Output rate 20 Hz
[4] Open sky conditions
[5] RMS levels
[6] Baseline <40 km
[7] After convergence
[8] 99.9%

STANDARD ACCESSORIES

0.3 m cable

Charger

1 m cable

USB cable

1.5 m cable

Antenna cap

Serial cable

GNSS cable

Soft-carrying case

battery

SURVEY ACCESSORIES

Survey antenna

Hard shell case

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