SPECIFICATIONS

GNSS Features

Channels(Optional)GPS	
GLONASS	G1, G2, G3
BDS	BDS-2: B1I, B2I, B3I
GALILEOS	BDS-3: B1I, B3I, B1C, B2a, B2b*
SBAS	L1*
IRNSS	
QZSS	L1, L2C, L5*
MSS L-Band (Reserve) Positioning output rate	411- 2011-
Initialization time	
Initialization reliability	
,	
Positioning Precision	
Code differential GNSS positioning	Horizontal: 0.25 m + 1 ppm RMS
	Vertical: 0.50 m + 1 nnm RMS
GNSS static	
Real-time kinematic	Vertical: 5 mm + 0.5 ppm RMS
(Rasolino < 30km)	Wortical: 15 mm + 1 ppm RMS
(Baseline<30km) SBAS positioning	Typically < 5m 3DRMS
RTK initialization time	2~8s
IMU tilt angle	0°~60°
Hardware Performance	
Dimension	
Weight	
Material Operating temperature	
Storage temperature	
Humidity	
Waterproof/Dustproof	IP68 standard, protected from long
	time immersion to depth of 1m
IP	68 standard, fully protected against
Shock/Vibration	blowing dust
	the cement ground naturally
Power supply	6-28V DC, overvoltage protection
Battery	Inbuilt 6800mAh rechargeable,
Dattamylifa	Li-ion battery
Battery life	8h (Base + UHF)
12h (Rove	r + UHF), 15h (Rover + Bluetooth)
()	,, . (,
Communications	
	LEMO external power port + Rs232
Type-C i	nterface (charge + OTG + Ethernet)
	1 UHF antenna interface
Internal LIHE	SIM card slot (Micro SIM) 2W radio, receive and transmit,
IIIternal Onf	radio router and radio repeater
Frequency range	410 - 470MHz
Communication protocol	Farlink, Trimtalk450s,
	HUACE, Hi-target, Satel
Collular mobile naturals	. Typically 8km with Farlink protocol 4G cellular module standard.
Central mobile network	4G cellular module standard, customizable 5G module
BluetoothBluetooth 3.0	0/4.1 standard, Bluetooth 2.1 + EDR
NFC Communication Realiz	ing close range (shorter than 10cm)
	utomatic pair botwoon receiver and

WIFI	
Modem	802.11 b/g standard
WIFI hotspot	Receiver broadcasts its hotspot form web UI
	accessing with any mobile terminals
WIFI datalink	Receiver can transmit and receive correction
	data stream via WiFi datalink

Data Storage/Transmission

Storage... 8GB SSD internal storage standard, extendable up to 64GB Automatic cycle storage (The earliest data files will be removed automatically while the memory is not enough) Support external USB storage The customizable sample interval is up to 20Hz Data transmission...... Plug and play mode of USB data transmission Supports FTP/HTTP data download Data format..... Static data format: STH, Rinex2.01, Rinex3.02 and etc. Differential data format: RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 Output format: ASIC (NMEA-0813), Binary code (GENEQ Binary) Network model support: VRS, FKP, MAC, fully support NTRIP protocol

Sensors

Electronic bubble Controller software can display electronic
bubble, checking leveling status of the
carbon pole in real-time
IMU Built-in IMU module, calibration-free
and immue to magnetic interference
Thermometer Built-in thermometer sensor, adopting intelligent
temperature control technology, monitoring
and adjusting the receiver temperature

User Interaction

Operating systemLinux ButtonsSingle button	
Indicators 5 LED indicators	
Web interaction With the access of the internal web interface	-
management via WiFi or USB connection, users	S
are able to monitor the receiver status and	b
change the configurations freely	y
Voice guidance It provides status and operation voice guidance	,
and supports Chinese/English/	/
Korean/Spanish/Portuguese/Russian/Turkish	ı
Secondary developmentProvides secondary development	t
package, and opens the OpenSIC observation	n
data format and interaction interface definition	า
Cloud service The powerful cloud platform provides online	е
services like remote manage, firmware update,	٠,
online register and etc.	

Items marked with * will be upgraded with the update of the firmware version

The data comes from the GENEQ GNSS Product Laboratory, and the specific situation is subject to local actual usage.

CE FC



automatic pair between receiver and controller (controller requires NFC wireless communication module else)

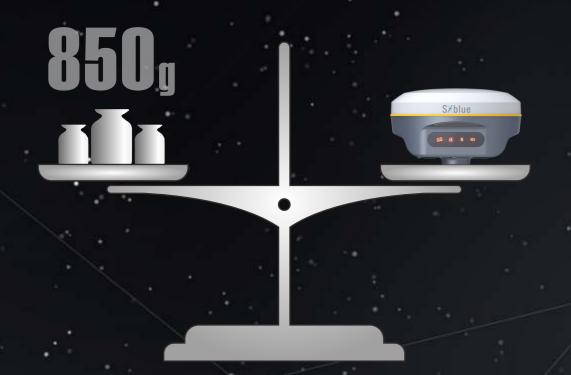
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10700 Secant St., Montreal, Quebec H1J 1S5 Canada Tel: 514-354-2511 ext. 228 | 1-800-463-4363 Fax: 514-354-6948 Email: info@geneq.com







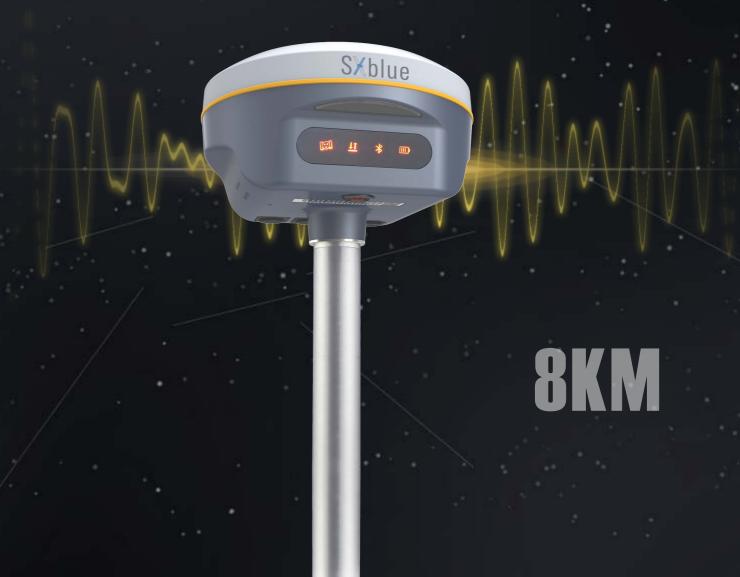


Ingenious & stylish design

With highly integrated and layered design, SXblue SMART is smaller than typical Galaxy series receivers. And coupled with the magnesium alloy body the shell, weight of SXblue SMART is only **850g** including internal battery, extremely light and convenient to carry.

The extraordinary inbuilt radio

SXblue SMART adopts a new self-developed digital radio module with "Farlink" protocol to achieve the typical working range as 8km. The transmission bandwidth of "Farlink" becomes large, which perfectly solves the problem of large data volume of multiple constellations transmission. And the power consumption can reduce about 60% in the same amount of data transmission compare to the traditional RTK.



Ultimate goals of full signals tracking

SXblue SMART adopts high and low frequency integrated antenna design, which using low profile design technology to reduce the physical difference between high and low frequency bands, improves phase center consistency. And the applied frequency selective radiation mechanism would enhance antenna anti-interference ability. And combines with high-performance GNSS board, SXblue SMART fully supports all of running satellite constellations, especially BeiDou III global satellite signals.

The fact moving ahead into the future

SXblue SMART is integrated with an advanced **SoC** which is a chip comes with the advantage of high integration and low power consumption, efficiently suppress the interference signals, and obtain higher quality observation data from satellite constellations. SXblue SMART will bring a leap-forward experience of RTK performance.

Worry-free surveying

The new generation of SoC platform gives RTK more stable performance and lower power consumption. The built-in 6800mAh high-performance battery can support **15 hours*** of continuous operation. SXblue SMART adopts Type-C charging interface which supports PD rapid charging, the battery can be full charged in 3 hours that supports full-day work.

* Working time should depend on the use of datalink on Rover, generally, the typically working time of Bluetooth mode is around 15hrs.

Measure whatever you want

SXblue SMART is integrated with a new generation Inertial Measurement

Unit which makes tilt measurement more stable and accurate, the coordinates would be corrected automatically according to the inclination direction and angle of the pole, without strict leveling the receiver to measure the point at will, it helps surveyors boost productivity by 30 percent.





Smart reminder of base station attitude

Built-in high-precision tilt attitude module which associates with receiver attitude, when the base station moves or falls, it can accurately distinguish and promptly remind.