



WIFI	
Modem	
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 intelligen
temperature control technology, monitoring
and adjusting the receiver temperature

User Interaction

Operating system	Linux
Buttons	Single button
Indicators	
Web interaction With	the access of the internal web interface
manager	nent via WiFi or USB connection, users
are	able to monitor the receiver status and
	change the configurations freely
Voice guidance It provide	s status and operation voice guidance,
	and supports Chinese/English/
Korean	/Spanish/Portuguese/Russian/Turkish
Secondary development	Provides secondary development
packag	e, and opens the OpenSIC observation
data for	mat and interaction interface definition
Cloud service The p	powerful cloud platform provides online
services	like remote manage, firmware update,
	online register and etc.
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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.

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SPECIFICATIONS

GNSS Features

Channels(Optional)	
GPS	L1, L1C, L2C, L2P, L5
GLONASS	G1, G2, G3
BDS	BDS-2: B1I, B2I, B3I
	BDS-3: B1I, B3I, B1C, B2a, B2b*
GALILEOS	E1, E5A, E5B, E6C, AltBOC*
SBAS	L1*
IRNSS	L5*
QZSS	L1, L2C, L5*
MSS L-Band (Reserve)	
Positioning output rate	
Initialization time	
Initialization reliability	>99.99%

Positioning Precision

Code differential GNSS positioning	Horizontal: 0.25 m + 1 ppm RMS
	Vertical: 0.50 m + 1 ppm RMS
GNSS static	. Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 5 mm + 0.5 ppm RMS
Real-time kinematic	Horizontal: 8 mm + 1 ppm RMS
(Baseline<30km)	Vertical: 15 mm + 1 ppm RMS
SBAS positioning	Typically < 5m 3DRMS
RTK initialization time	
IMU tilt angle	0°~60°

Hardware Performance

Dimension	
Weight	
Material	Magnesium aluminum alloy shell
Operating temperature	
Storage temperature	
Humidity	100% Non-condensing
Waterproof/Dustproof.	IP68 standard, protected from long
	time immersion to depth of 1m
	IP68 standard, fully protected against
	blowing dust
Shock/Vibration	Withstand 2 meters pole drop onto
	the cement ground naturally
Power supply	
Battery	Inbuilt 6800mAh rechargeable,
	Li-ion battery
Battery life	Single battery: 16h (static mode)
	8h (Base + UHF)
	12h (Rover + UHF), 15h (Rover + Bluetooth)

Communications

I/O Port	5PIN LEMO external power port + Rs232
	Type-C interface (charge + OTG + Ethernet)
	1 UHF antenna interface
	SIM card slot (Micro SIM)
Internal UHF	2W radio, receive and transmit,
	radio router and radio repeater
Frequency range	410 - 470MHz
Communication protocol.	Farlink, Trimtalk450s,
	HUACE, Hi-target, Satel
Communication range	Typically 8km with Farlink protocol
Cellular mobile network	4G cellular module standard,
	customizable 5G module
BluetoothBlue	etooth 3.0/4.1 standard, Bluetooth 2.1 + EDR
NFC Communication	Realizing close range (shorter than 10cm)
	automatic pair between receiver and
	controller (controller requires NFC

wireless communication module else)





GNSS Smart Antenna SXBLUE SMART

Simple and elegant without losing precision



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.

SXblue

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

8KM

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.

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 fullday work.

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

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.

800m

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.

60°

Smart reminder of

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.

base station attitude