







### **INGENIOUS AND STYLISH DESIGN**

With a highly integrated and layered design, SXblue SMART is smaller than other Galaxy series receivers. The magnesium alloy body of the shell adds durability, while the weight totals only **850g** including the internal battery, which is very light and convenient to carry.

# THE EXTRAORDINARY INBUILT RADIO

SXblue SMART adopts a new self-developed digital radio module with "Farlink" protocol to achieve an 8km working range. The large transmission bandwidth of "Farlink" perfectly solves the problem of the large data volume, for multiple constellations transmission. The power consumption during data transmission is reduced by about 60% compared to traditional RTK.



# THE ULTIMATE GOAL OF FULL SIGNAL TRACKING

SXblue SMART combines high and low-frequency integrated antennae with a low-profile design to reduce the physical difference between high and low-frequency bands and improve phase center consistency. The applied frequency selective radiation mechanism enhances the antenna's anti-interference ability. Combined with a high-performance GNSS board, SXblue SMART fully supports all the running satellite constellations, especially BeiDou III global satellite signals.

### **WORRY-FREE SURVEYING**

The new generation of SoC platform offers more stable RTK performance and lower power consumption. The built-in 6800mAh high-performance battery supports **15 hours\*** of continuous operation. SXblue SMART adopts a Type-C charging interface that supports PD rapid charging. The battery can be fully charged in 3 hours and easily sustains a full day's work. Generally, the working time depends on the use of datalink. Typical working time with the Bluetooth mode is around 15 hours.

# **PUSHING AHEAD INTO THE FUTURE** SXblue SMART is integrated with an advanced SoC, offering the advantages of high integration and low power consumption, efficient suppressing of the interference signals, and higherquality observation data from satellite constellations. SXblue SMART will bring you a leap-forward experience in RTK performance. 6800mA

### **MEASURE WHATEVER YOU WANT**

SXblue SMART features the new generation **Inertial Measurement Unit** which makes tilt measurement more stable and accurate. The coordinates are corrected automatically according to the inclination direction and angle. Thus, without needing to always level the receiver, surveyors get their productivity boosted by about 30 percent.





## **BASE STATION ALTITUDE REMINDER**

The built-in high-precision tilt attitude module is associated with the receiver attitude. When the base station moves or falls, it can accurately detect it, and promptly issue a reminder.

#### **SPECIFICATIONS**

GNSS Features	
Channels(Optional)448, 965, 1760	WIFI
GPSL1, L1C, L2C, L2P, L5	Modem
GLONASS	WIFI hotspotReceiver broadcasts its hotspot form web UI
BDS	accessing with any mobile terminals
BDS-3: B1I, B3I, B1C, B2a, B2b*	WIFI datalink Receiver can transmit and receive correction
GALILEOS E1, E5A, E5B, E6C, AltBOC*	
	data stream via WiFi datalink
SBASL1*	
IRNSS	
QZSS L1, L2C, L5*	Data Storage/Transmission
MSS L-Band (Reserve)	Storage 8GB SSD internal storage standard, extendable up to 64GB
Positioning output rate	Automatic cycle storage (The earliest data
Initialization time<10s	files will be removed automatically while the
Initialization reliability>99.99%	
	memory is not enough)
	Support external USB storage
Positioning Precision	The customizable sample interval is up to 20Hz
Code differential GNSS positioning Horizontal: 0.25 m + 1 ppm RMS	Data transmission Plug and play mode of USB data transmission
Vertical: 0.50 m + 1 ppm RMS	Supports FTP/HTTP data download
GNSS static	Data format Static data format: STH, Rinex2.01, Rinex3.02 and etc.
	Differential data format: RTCM 2.1, RTCM 2.3,
Vertical: 5 mm + 0.5 ppm RMS	RTCM 3.0, RTCM 3.1, RTCM 3.2
Real-time kinematic	Output format: ASIC (NMEA-0813),
(Baseline<30km) Vertical: 15 mm + 1 ppm RMS	
SBAS positioningTypically < 5m 3DRMS	Binary code (GENEQ Binary)
RTK initialization time2 ~ 8s	Network model support: VRS, FKP, MAC,
IMU tilt angle0° ~ 60°	fully support NTRIP protocol
	Sensors
Hardware Performance	Electronic bubble Controller software can display electronic
Dimension	
Weight 850g (battery included)	bubble, checking leveling status of the
Material Magnesium aluminum alloy shell	carbon pole in real-time
Operating temperature25°C ~ +65°C	IMU Built-in IMU module, calibration-free
Storage temperature35°C ~ +80°C	and immue to magnetic interference
Humidity	Thermometer Built-in thermometer sensor, adopting intelligent
Weterproof/Dustroof	temperature control technology, monitoring
Waterproof/DustproofIP68 standard, protected from long	and adjusting the receiver temperature
time immersion to depth of 1m	The state of the s
IP68 standard, fully protected against	
blowing dust	User Interaction
Shock/VibrationWithstand 2 meters pole drop onto	Operating systemLinux
the cement ground naturally	Buttons
Power supply 6-28V DC, overvoltage protection	
BatteryInbuilt 6800mAh rechargeable,	Indicators 5 LED indicators
Li-ion battery	Web interaction With the access of the internal web interface
Battery lifeSingle battery: 16h (static mode)	management via WiFi or USB connection, users
8h (Base + UHF)	are able to monitor the receiver status and
	change the configurations freely
12h (Rover + UHF), 15h (Rover + Bluetooth)	Voice guidance It provides status and operation voice guidance,
	and supports Chinese/English/
Communications	Korean/Spanish/Portuguese/Russian/Turkish
	Secondary developmentProvides secondary development
I/O Port 5PIN LEMO external power port + Rs232	package, and opens the OpenSIC observation
Type-C interface (charge + OTG + Ethernet)	data format and interaction interface definition
1 UHF antenna interface	
SIM card slot (Micro SIM)	Cloud service The powerful cloud platform provides online
Internal UHF 2W radio, receive and transmit,	services like remote manage, firmware update,
radio router and radio repeater	online register and etc.
Frequency range	
Communication protocol Farlink, Trimtalk450s,	
HUACE, Hi-target, Satel	
Communication range	
Collular mobile notwork	Items marked with * will be upgraded with the update of the firmware version
Cellular mobile network	
customizable 5G module	The data comes from the GENEQ GNSS Product Laboratory, and the specific
Bluetooth	situation is subject to local actual usage.
NFC Communication Realizing close range (shorter than 10cm)	
automatic pair between receiver and	
controller (controller requires NFC	
wireless communication module else)	



910 Rowntree Dairy Rd., Unit #15, Vaughan, Ontario L4L 5W5 Canada Tel: 365-527-2508 | 1 855 527-5808 Fax: 365-527-2509 Email: sales@geneq.com

CE FC

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