#### **SPECIFICATIONS**

GNSS Features	Communications
Channels	I/O Port 5PIN LEMO external power port + Rs232
GPS L1, L1C, L2C, L2P, L5	Type-C interface (charge + OTG + Ethernet)
GLONASS	1 UHF antenna interface
BDS	SIM card slot (Micro SIM)
BDS-3: B1I, B3I, B1C, B2a, B2b*	Internal UHF
GALILEOS E1, E5A, E5B, E6C, AltBOC*	radio router and radio repeater
SBAS(WAAS/MSAS/EGNOS/GAGAN)	Frequency range
IRNSS	Communication protocol Farlink, Trimtalk450s, SOUTH,
QZSS	SOUTH+, SOUTHx, HUACE, Hi-target, Satel
MSS L-band. BDS-PPP	
Positioning output rate	Communication range
Positioning output rate	customizable 5G module
Initialization time	
Initialization reliability>99.99%	Bluetooth
	NFC Communication Realizing close range (shorter than 10cm)
Positioning Precision	automatic pair between receiver and
Code differential GNSS Horizontal: 0.25 m + 1 ppm RMS	controller (controller requires NFC
Vertical: 0.50 m + 1 ppm RMS	wireless communication module else)
Static(long observations)Horizontal: 2.5 mm + 0.1 ppm RMS	
	Data Storage/Transmission
Vertical: 3 mm + 0.4 ppm RMS           StaticHorizontal: 2.5 mm + 0.5 ppm RMS	
Static	Storage 8GB SSD internal storage standard, extendable up to 64GB
Vertical: 3.5 mm + 0.5 ppm RMS	Automatic cycle storage (The earliest data
Rapid static Horizontal: 2.5 mm + 0.5 ppm RMS	files will be removed automatically while the
Vertical: 5 mm + 0.5 ppm RMS           PPK         Horizontal: 3 mm + 1 ppm RMS	memory is not enough)
PPK Horizontal: 3 mm + 1 ppm RMS	Support external USB storage
Vertical: 5 mm + 1 ppm RMS	The customizable sample interval is up to 20Hz
RTK(UHF)Horizontal: 8 mm + 1 ppm RMS	Data transmission Plug and play mode of USB data transmission
Vertical: 15 mm + 1 ppm RMS	Supports FTP/HTTP data download
RTK(NTRIP)	Data format Static data format: STH, Rinex2.01, Rinex3.02 and etc.
Vertical: 15 mm + 0.5 ppm RMS	Differential data format: RTCM 2.1,RTCM 2.3,
RTK initialization time	RTCM 3.0, RTCM 3.1, RTCM 3.2
SBAS positioningTypically < 5m 3DRMS	Output format: ASIC (NMEA-0813),
BANDA-L Horizontal: 5-10cm (5-30min)	Binary code (SOUTH Binary)
Vertical: 10-30cm (5-30min)	Network model support: VRS, FKP, MAC,
Vertical: 10-30cm (5-30min) IMULess than 10mm + 0.7 mm/° tilt to 30°	
Vertical: 10-30cm (5-30min)	Network model support: VRS, FKP, MAC,
Vertical: 10-30cm (5-30min) IMULess than 10mm + 0.7 mm/° tilt to 30°	Network model support: VRS, FKP, MAĆ, fully support NTRIP protocol
Vertical: 10-30cm (5-30min)  IMU Less than 10mm + 0.7 mm/° tilt to 30°  IMU tilt angle	Network model support: VRS, FKP, MAC, fully support NTRIP protocol  Sensors
Vertical: 10-30cm (5-30min)	Network model support: VRS, FKP, MAĆ, fully support NTRIP protocol  Sensors Electronic bubble
Vertical: 10-30cm (5-30min)     IMU	Network model support: VRS, FKP, MAĆ, fully support NTRIP protocol  Sensors Electronic bubble
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Items marked with \* will be upgraded with the update of the firmware version

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









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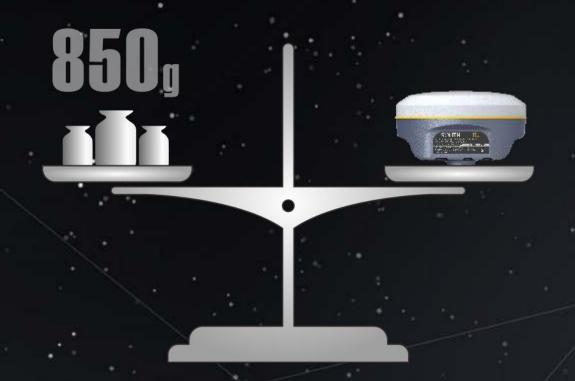




#### GALAXY G2

Brand new diminutive RTK receiver —





## Ingenious & stylish design

With highly integrated and layered design, Galaxy G2 is smaller than typical Galaxy series receivers. And coupled with the magnesium alloy body shell, the weight of G2 is only 850g including internal battery, extremely light and convenient to carry.

### The extraordinary inbuilt radio

Galaxy G2 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

Galaxy G2 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, G2 fully supports all of running satellite constellations, especially BeiDou III global satellite signals.

Now G2 supports the BeiDou-3 B2b L-band BDS-PPP corrections to get real-time centimeter level positioning services.

Thanks to the new function "Fixed-keep", now it is possible for G2 to keep centimeter-level accuracy for few minutes when the RTK corrections is missing.

# The fact moving ahead into the future

Galaxy G2 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. G2 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. G2 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**

Galaxy G2 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.