#### **SPECIFICATIONS**

**GNSS Features** 

Channels GPS GLONASS BDS  BDS  GALILEOS SBAS IRNSS QZSS MSS L-Band (Reserve) Positioning output rate Initialization reliability	L1, L1C, L2C, L2P, L5 G1, G2, G3 BDS-2: B1I, B2I, B3I 3: B1I, B3I, B1C, B2a, B2b* 1, E5A, E5B, E6C, AltBOC* L1* L5* L1, L2C, L5*
Positioning Precision	
Code differential GNSS positioning Horiz	zontal: 0.25 m + 1 ppm RMS ertical: 0.50 m + 1 ppm RMS
GNSS static Horizor	ntal: 2.5 mm + 0.5 ppm RMS rtical: 5 mm + 0.5 ppm RMS
Real-time kinematicHor	izontal: 8 mm + 1 ppm RMS
(Baseline<30km) Ve SBAS positioning	ertical: 15 mm + 1 ppm RMS
RTK initialization time	2 ~ 8s
IMU tilt angle	0° ~ 60°
Shock/Vibration	850g (battery included) lesium aluminum alloy shell
Battery lifeSingl	e battery: 16h (static mode) 8h (Base)
	15h (Rover + Bluetooth)
Communications I/O Port	,
Type-C interface	(charge + OTG + Ethernet) SIM card slot (Micro SIM)
Communication protocol Far	link, Trimtalk450s, SOUTH,
SOUTH+, SOUTH Communication range	lx, HUACE, Hi-target, Satelly 8km with Farlink protocol G cellular module standard, customizable 5G module ndard, Bluetooth 2.1 + EDR e range (shorter than 10cm) c pair between receiver and ler (controller requires NFC
wireless co	ommunication module else)

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: CMR, SCMRx, RTCM 2.1,
RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
GPS output data format: NMEA 0183, PJK plane
coordinate, Binary code, Trimble GSOF
Network model support: VRS, FKP, MAC,
fully support NTRIP protocol

Sensors Electronic bubbleController software can display electronic bubble, checking leveling status of the	
carbon pole in real-time IMU	e t

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

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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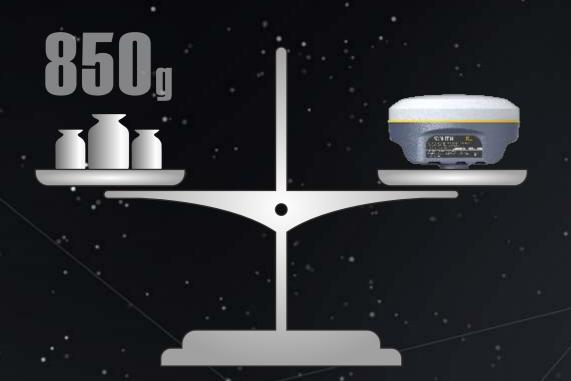
AHMEDABAD CHENNAI HYDERABAD INDORE KOLKATA MUMBAI



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 module

Galaxy G2 adopts a new self-developed digital module, 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.

## 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**

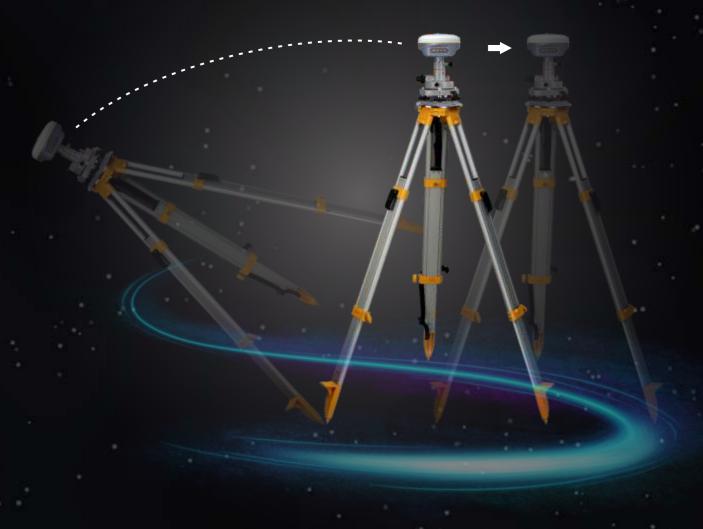
The new generation of SoC platform gives RTK more stable performance and lower power consumption. The built-in 6800mAh high-performance battery can support **15 hours**\* of continuous operation. G2 adopts Type-C charging interface which supports PD rapid charging, the battery can be full charged in 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.