SPECIFICATIONS

GNSS Features	
	1760
GPS	L1C/A, L1C, L2C, L2P, L5
	L1C/A, L2C/A, L2P, L3CDMA
	B1I, B1C, B2I, B2a, B3 E1, E5A, E5B, E5AltBOC, E6 ^[1]
	, WAAS, GAGAN, MSAS, SDCM(L1,L5)
	L1C/A, L1C, L2C, L5, L6
Navic	L5
On module L-Band (Reserve)	411- 5011-
	1Hz~50Hz <10s
,	
Positioning Precision*	
Real-time kinematic	Horizontal: 6 mm + 0.5 ppm RMS
	Vertical: 10 mm + 1 ppm RMS Horizontal: 2.5 mm + 0.5 ppm RMS
GNSS static	Horizontal: 2.5 mm + 0.5 ppm RMS
Standalana	Vertical: 5 mm + 0.5 ppm RMS Horizontal: 1.2m Vertical: 1.9m RMS
	Horizontal: 0.4m Vertical: 0.7m RMS
	Horizontal: 0.6m Vertical: 0.8m RMS
	2~8s
	Additional horizontal pole tip uncertainty
typically les	s than 10mm + 0.7 mm/° tilt down to 30°
into tilt angle	0 - 00
Hardware Performance	
Dimension	130mm(W) ×130mm(L) × 80mm(H)
Weight	790g (battery included)
Matchal	
Operating temperature	
Storage temperature	45°C ~ +75°C 55°C ~ +85°C
Storage temperature	45°C ~ +75°C -55°C ~ +85°C 100% Non-condensing
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -100% Non-condensing
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -100% Non-condensing
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -100% Non-condensing -1
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -00% Non-condensing -00% Non-condensin
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -100% Non-condensing -1
Storage temperature Humidity Waterproof/Dustproof Shock/Vibration	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +85°C -100% Non-condensing -100% Non
Storage temperature Humidity Waterproof/Dustproof Shock/Vibration	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +85°C -100% Non-condensing -100% Non
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +75°C -65°C ~ +85°C -6
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +85°C -100% Non-condensing -100% Non
Storage temperature	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +75°C -65°C ~ +85°C -6
Storage temperature Humidity Waterproof/Dustproof Shock/Vibration Power supply Battery life Communications	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +85°C -100% Non-condensing -100% Non
Storage temperature Humidity Waterproof/Dustproof Shock/Vibration Power supply Battery life Communications	-45°C ~ +75°C -55°C ~ +85°C -55°C ~ +85°C -100% Non-condensing -100% Non
Storage temperature Humidity Waterproof/Dustproof Shock/Vibration Power supply Battery life Communications	
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Storage temperature	

W	I
M	em
W	hotspotAP mode, Receiver broadcasts its hotspot form web UI
	accessing with any mobile terminals
W	datalink Client mode, Receiver can transmit and receive correction
	data stream via WiFi datalink

Data Storage/Transmission
Storage
Automatic cycle storage (The earliest data
files will be removed automatically while the
memory is not enough)
Support external USB storage
Data transmissionPlug and play mode of USB data transmission
Supports FTP/HTTP data download
Data formatStatic data format: STH, Rinex2.01, Rinex3.02 and etc.
Differential format: CMR, RTCM 2.x,
RTCM 3.x(MSM included)
GPS output data format: NMEA 0183, PJK plane
coordinate, SOUTH Binary code
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	One button
Indicators	5 LED indicators(Satellite, Charging,
	Power, Datalink, Bluetooth)
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 development	Provides secondary development
, ,	kit, 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.
	3

[1]Hardware is ready

*The data comes from the SOUTH GNSS product laboratory, and the specific situation is subject to local actual usage. The measurement accuracy, precision and reliability are associated to various factors, including number of satellite tracking, observation time, multi-path, etc.

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GALAXY G3

— Supercharged Pocket RTK —





Lighter and Faster

Only **790g** in weight, G3 is still packaged with the magnesium alloy shell. Highly intergrated design, smaller and lighter, easy to use in the field.

Colourful LED indicators

The colorful LED indicators can briefly show the current status.



Battery life checking:

we can quickly check the battery life by pressing the button, after pressing the button, some of the Indicators will turn on.



Supercharged by SoC technology

Galaxy G3 is a new product from **SOUTH SoC** platform, most components of G3 (GNSS module, Wi-Fi, Bluetooth, etc.) are integrated on one circuit board. G3 has lower power consumption, and efficiently improves the ability of receiving higher quality satellites signals.

Powerd by the new SoC GNSS board, new generation sensitivity satellite antenna, new ROS platform and GNSS RTK engine, G3 can fully track GPS, GLONASS, BDS, GALILEO and QZSS toobtain centimeter-level positioning in few seconds.

Now G3 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 G3 to keep centimeter-level accuracy for few minutes when the RTK corrections is missing.



Longer battery life

Thanks to the SOC technology, G3 achives higher performance and lower power consumption. The built-in 6800mAh Li-ion battery can continuously work 15 hours(Rover Bluetooth mode).

G3 adopts Type-C charging interface which supports PD protocol quickly charging, the battery can be fully charged in **3 hours** and then supports full-day work.

Now G3 also supports the external phone portable battery, to continue the work even internal battery is used

IMU for tilt survey

Galaxy G3 is intergrated with the latest **Inertial Measurement Unit (IMU)**. Featured with anti-magnetic chracteristic, you can start the tilt survey in any place. Shaking to initialize the IMU sensor, no need to calibrate. Up to 200Hz IMU data output rate, boosting the speed of field work.

Super radio and Farlink protocol

Galaxy G3 is packaged with SOUTH "Beaver" super radio and the exclusive "Farlink" protocol. The "Beaver" super radio is more power saving, "Farlink" protocol has larger bandwidth. The combination of "Beaver" super radio and "Farlink" protocol makes better performance on signal capturing.



