#### **SPECIFICATIONS**

GNSS Features	
	1760
GPS	L1C/A, L1C, L2C, L2P, L5
GLONASS	L1C/A, L2C/A, L2P, L3CDMA
	B1I, B1C, B2I, B2a, B3
	E1, E5A, E5B, E5AltBOC, E6[1] WAAS, GAGAN, MSAS, SDCM(L1,L5)
0799	L1C/A, L1C, L2C, L5, L6
Navic	L5
On module L-Band (Reserve)	
	1Hz~50Hz
	<10s
Initialization reliability	>99.9%
Positioning Precision*	
Real-time kinematic	Horizontal: 6 mm + 0.5 ppm RMS
GNSS static	Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 5 mm + 0.5 ppm RMS
Standalone	lorizontal: 1.2m Vertical: 1.9m RMS
	Horizontal: 0.4m Vertical: 0.7m RMS Horizontal: 0.6m Vertical: 0.8m RMS
	2~8s
	dditional horizontal pole tip uncertainty
typically less	s than 10mm + 0.7 mm/° tilt down to 30°
IMU tilt angle	0°~60°
Handran Bartania	
Hardware Performance	120~~(11) ×120~~(1) × 20~~(1)
Weight	130mm(W) ×130mm(L) × 80mm(H)790g (battery included)
V V GIGI IL	
Material	Magnesium aluminum allov shell
Material Operating temperature	
Material Operating temperature Storage temperature	
Material Operating temperature Storage temperature Humidity	
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MaterialOperating temperatureStorage temperatureHumidity.	
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WIFI
Modem
WIFI hotspot AP mode, Receiver broadcasts its hotspot form web UI
accessing with any mobile terminals
WIFI 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 protoco

Sensors	
Electronic bubble	Controller software can display electronic
	bubble, checking leveling status of the
	carbon pole in real-time
MU	Built-in IMU module, calibration-free
	and immue to magnetic interference
Thermometer	Built-in thermometer sensor, adopting intelligent
	temperature control technology, monitoring and adjusting the receiver temperature

User Interaction	
	Linux
	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,
3	and supports Chinese/English/
	Korean/Spanish/Portuguese/Russian/Turkish
Secondary development	Provides secondary development
occorruany acronoprinorium	kit, and opens the OpenSIC observation
	data format and interaction interface definition
Cloud service	
Oloda 301 vico	services like remote manage, firmware update,
	online register and etc.
	Offill the register and etc.

#### [1]Hardware is ready

CEFC MINE



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http://www.southinstrument.com http://www.southsurvey.com



#### GALAXY G3

— Supercharged Pocket RTK —



<sup>\*</sup>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.



# **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 and Galileo High Accuracy Service (Galileo-HAS), it can get real-time high-precision positioning even there is no base receiver.

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.



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.

# 600

# 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.

