#### **SPECIFICATIONS**

GNSS Features	
GPS	L1C/A, L1C, L2C, L2P, L1
GLONASS	L1C/A, L2C/A, L2P, L3CDM/
BDS	
GALILEO	E1, E5A, E5B, E5AltBOC, E6
SBAS	GNOS, WAAS, GAGAN, MSAS, SDCM(L1,L5
QZSS	L1C/A, L1C, L2C, L5, L6
Navic	L
On module L-Band (Re	erve)
Positioning output rate.	1Hz-50H
Initialization time	< 10
Initialization reliability	> 99.995

Positioning Precision	
Code differential GNSS	
	Vertical: 0.50 m + 1 ppm RMS
Static(long observations)	
	Vertical: 3 mm + 0.4 ppm RMS
Static	Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 3.5 mm + 0.5 ppm RMS
Rapid static	Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 5 mm + 0.5 ppm RMS
PPK	
	Vertical: 5 mm + 1 ppm RMS
RTK(UHF)	
	Vertical: 15 mm + 1 ppm RMS
RTK(NTRIP)	Horizontal: 8 mm + 0.5 ppm RMS
	Martingly 4.5 may 4.0 Employ 20140
RTK initialization time	vertical: 10 mm + 0.0 ppm roses 2 ~ 8s
SBAS positioning	Typically < 5m 3DRM5
BANDA-L	
ED-04EFF-E	Vertical: 10-30cm (5-30min
IMIT	Less than 10mm + 0.7 mm/" tilt to 30'
IMIT III annia	0° ~ 60'

Hardware Performance Shock/Vibration.

WIFI Modern. 802.11 big standard WIF1 hotspot. AP mode, Receiver broadcasts its hotspot from web UII accessing with any middle terminals WIF1 datalink. Client mode, Receiver can bensmit and receive correction data stream via WIF1 datalink.

tems marked with \* will be upgraded along with the update of assigned firmware version

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

Sensors
Electronic bubble. Controller software can display electronic bubble, checking leveling status of the carbon pole in real first and the carbon pole in real first and in MU. Built-In MU module, calibration-fewer and immue to magnetic interference. Built-in thermometer sensor, adopting intelligent temperature control lectronlogy, monitoring and adjusting the receiver temperature. User Interaction Operating system... Buttons...... Indicators..... Linux
One button

5 LED indicators/Satellite Charging,
Power, Detains, Bluetooth)
With the access of the internal web interface
management via WPT or USB connection, users
are able to monitor the receiver status and
change the configurations freely
it provides shall as and operation volce guidance,
and supports Chinese/English
Korean/SpringhPortinguese/Bussian/Turksh
ant, Provides secondary development
it, and opens the OpenSIC observation
date format and interaction interface definition
The powerful cloud platform provides online
services like remote manage, firmware update,
online register and etc.



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Communications I/O Port.....

Data Storage/Transmission

GALAXY G3



### **Colourful LED** indicators

The colorful LED indicators can briefly show the current status.



## **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.



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.





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.

# **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.

