SPECIFICATIONS

Satellite Signals Tracked Simultaneous	
Signal tracking	336 channels, 1760 channels (optional). 1598 channels (optional)
	BDS B1,B2,B3 GPS L1C/A,L1C,L2C,L2E,L5
	GLONASS L1C/A,L1P,L2C/A,L2P,L3
	SBAS L1C/A,L5 (just for the satellites supporting L5)
	Galileo GIOVE-A,GIOVE-B,E1,E5A,E5B
	QZSS,WAAS,MSAS,EGNOS,GAGAN
	L-band
GNSS features	Positioning output rate:1Hz~50Hz
	Initialization time:<10s Initialization reliability:>99.99%
Positioning precision	mittalization reliability.295.59%
Code differential GNSS positioning	Horizontal: ±0.25m+1ppm Vertical: ±0.50m+1ppm
, and the second	SBAS positioning accuracy:typically<5m 3DRMS
Static GNSS surveying	Horizontal: ±3mm+0.1ppm Vertical: ±3.5mm+0.4ppm
Fast static	Horizontal: ±3mm+0.3ppm Vertical: ±5mm+0.5ppm
Real-time kinematic surveying	Horizontal: ±8mm+1ppm Vertical: ±15mm+1ppm
SLink	Horizontal: 3-10cm (5-30min) Vertical: 8-20cm (5-30min)
RTK initialization time User interaction	2~8s
Operaing system	Linux
Buttons	Two buttons operation
Indicators	Five indicate lights
Web UI	Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB
Voice guide	iVoice intelligent voice technology provides status and voice guide
	Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define
Secondary development	Providing secondary development package
Hardware performance Dimension	135mm(Diameter)x125mm(Height)
Weight	1.39kg (with two batteries)
Material	Magnesium aluminum alloy shell
Operating	-40°C~+65°C
Storag	-40°C~+80°C
Humidity	100% Non-condensing
Waterproof/Dustproof	IP67 standard, protected from long time immersion to depth of 1m
Charles and silvaretion	IP67 standard, fully protected against blowing dust
Shock and vibration Power Supply	Withstand 2 meters pole drop onto the cement ground naturally 9-25V DC, overvoltage protection
Battery	Rechargeable, removable Lithium-ion battery, 7.4V 3400mAh/per; standard four batteries power package(optional)
Battery solution	Supporting one or two batteries installed; supporting power pole connection
Battery life	Single battery: >8h (static mode). And two installed hot swappable batteries works for more than 16 hours.
Communications	
I/O port	5PIN LEMO external power port + RS232, 7PIN external USB(OTG)+Ethernet
We also a section	1 radio antenna interface, SIM card slot
Wireless modem	Built-in radio, 1W/2W/3W switchable, typically work range can be 8KM Radio and internet repeater switchable
Frequency Range	· ·
Frequency Range Communication Protocol	410-470MHz
Frequency Range Communication Protocol Cellular Mobile Network	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH
Communication Protocol	410-470MHz
Communication Protocol Cellular Mobile Network Double Module Bluetooth	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard
Communication Protocol Cellular Mobile Network	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed)
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Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed)
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Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card
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Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage Data Transmission	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download Differential data format: CMR, CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1,
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage Data Transmission	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download Differential data format: CMR, CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinates, Binary code,
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage Data Transmission	410-470MHz TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download Differential data format: CMR, CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1,
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Transmission Data Format	TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download Differential data format: CMR, CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage Data Transmission Data Format Inertial sensing system Tilt survey	### TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card ### 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI ### 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download Differential data format: CMR, CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle of the centering rod
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage Data Transmission Data Format Inertial sensing system Tilt survey Electronic bubble	### TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CODMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control ### WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control ### WIFI hotspot and controller ### WIFI hotspot and controller ### WIFI hotspot
Communication Protocol Cellular Mobile Network Double Module Bluetooth NFC Communication External Devices WIFI Standard WIFI Hotspot WIFI data link Data storage/ Transmission Data Storage Data Transmission Data Format Inertial sensing system Tilt survey	### TrimTalk450s, TrimMark3, PCC EOT, SOUTH WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card ### 802.11 b/g standard The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver To work as the datalink that receiver is able to broadcast and receive differential data via WIFI ### 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection USB data transmission, supporting FTP/HTTP data download Differential data format: CMR, CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle of the centering rod



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: 7/F, No.39 Si Cheng Road, Tian He IBD Guangzhou 510663, China (South Geoinformation Industrial Park)
Tel: +86-20-23380888 Fax: +86-20-23380800
E-mail: mail@southsurvey.com export@southsurvey.com impexp@southsurvey.com gnss@southsurvey.com
http://www.southinstrument.com http://www.southsurvey.com



GALAXY G1 Plus

Innovative GNSS Receiver —



























8G SSD storage

Behind every significant epoch-making change in human society, always accompanied by the birth of an important technology. Computer and electronics make surveying and mapping industry achieve a span from the analog age to the digital age. And the development of Internet technology further opens the prelude of surveying and mapping information age. In the form of the ubiquitous,

internet is penetrating and fusion in all corners of the surveying technology, and setting off an unprecedented reconstruction and transformation.

In the dawn of a new era, south is walking in front of it to craft Galaxy 1plus which opening a '+' era of high-precision positioning applications.

KEY FEATURES

Intelligent platform

Linux OS

New generation of embedded Linux operating system platform improves RTK performance and work efficiency. Its operating efficiency is higher; a unique core processing mechanism which can respond to more than one command at one time; it starts faster and more responsive in real time. While the stability of system is much higher, it can be adapt to the job of longer uninterrupted power.



Embedded Web UI management platform supports WIFI and USB mode connection. Users can monitor the receiver status and configure it via the internal Web UI management platform.

Wireless data communications

Wi-Fi

New Wi-Fi module, not only can be used as data link to access to internet, but also can be as a hotspot which can be accessed by any other smart devices to configure the receiver.

Equipped with dual-mode Bluetooth v4.0 standard which is able to connect the other smart devices and compatible with Bluetooth v2.1 standard. It not only enlarges the work range but also makes the data communication become more stable.

NFC

A light touch can be successfully paired which makes the connection become faster and more convenient.









Electronic bubble





Data Link

Built-in functional digital radio

SOUTH self-developed digital radio which can fully support the communications with the mainstream radio protocols: Trimtalk450S, TrimMark3, PCC EOT, and SOUTH. Realize the random switching of the radio range 410MHZ-470MHZ and the power level as well.

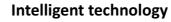
Radio repeater: The rover can broadcast the corrections via internal radio to other rovers after received the radio differential signal.

Internet repeater: The rover can broadcast the corrections via internet to other rovers after received the network differential signal.

Built-in network module

Standard 4G module which supports WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network and downward compatible with 3G GPRS/EDGE. Smart PPP dialing technology can auto dial which makes the G1 PLUS keeping online continuously during the survey.





Storage technology

Internal 8GB SSD and it supports external USB storage.

Supports STH, RINEX raw data storage and the sample rate can reach to 50Hz.

Supports automatic data storage cycle, the data will be automatically deleted when the space is not

Disk-On-key which can easily copy the data to external U disk.

Dual-battery system

The new design for battery house can support 2 batteries installed, that is able to last longer time for common field work!

iVoice

Intelligent iVoice can voice broadcast the current receiver status and operation guide in real time, it supports multiple languages.

Smart power pole supply technology

External power pole can provide up to 10 hours of power. It also can display the remaining power in real time.





















