SPECIFICATIONS

Signal tracking 220 channels (standard, 692 channels (optional), 555 channels (optional), 11 lebous (ii), 22, iii), 695 (LLC/A, LLC, LS, LC, LS), 696 (LLC/A, LLC, LS, LC, LS), 696 (LLC/A, LLC, LS, LC, LS), 696 (LLC/A, LLC, LS, LS), 697 (LLC/A, LLC, LS, LS), 697 (LLC/A, LLC, LS, LS), 697 (LLC/A, LDC, LS)	Satellite Signals Tracked Simultaneous	W.
Below (81, 82, 83) G93 (LC/A, LC) (E, LC, LC) (E, LC, LC) (E, LC)		
GPS (LIC/A, LIC, LZC, LZC, LS). Gallee (Glova, K. GlOVE, B. EL, ESA, SES, All BOC, ED) Glovas (LIC/A, LID LZC, LZC, LZC, LZC, LZC, LZC, LZC, LZC,	Signal tracking	
Galleo (Glovas (LCIA, P.I.) 2CA, P.I.) 25, ESA, RHIDOC, F6I Glovas (LCIA, P.I.) 2CA, P.I.) 3 SAS (WMAS, GAMOS), Lband, QZSS (L1 C/A, LTC, LZC, LS, LEX) Positioning precision Code differential DGPS/RTCM Typically SAS (positioning accuracy Typically Sas (MMAS, GAMOS), Lband, QZSS (L1 C/A, LTC, LZC, LS, LEX) Positioning accuracy SAS positioning accuracy Typically Sample Sas (MMAS, GAMOS), Lband, QZSS (L1 C/A, LTC, LZC, LS, LEX) Positioning accuracy SAS positioning accuracy Typically Sample Sporm Vertical: Somme Sporm SAS positioning accuracy Typically Sample Sporm Vertical: Somme Sporm Ve		
Gionas (LLC/A, LER, L2C/A, L2R, L3) SBAS (WARS, (GROS, SAS, GAMA)), L-band, Q25S (LLC/A, LLC, L2C, L5, LEX) Positioning output rate: Hir-SGHz Initialization time: c10s Positioning output rate: Hir-SGHz Initialization reliability-399 999 Rottioning output rate: Hir-SGHz Initialization reliability-399 999 Rottioning Color (Large March 1998) Rottioning (Sast Static) Rott Limit (Large March 1998) Rottioning (Sast Static) Rott (Large March 1998) Rottioning (Sast Static) Rott (Large March 1998) Rottioning (Sast Static) Rottioning (
SIAS (WAAS, EGNOS, MSAS, GAGAN), Leband, QZSS (LL C/A, LIC, L2C, L5, LEX) Positioning precision Cond differential DGPS/RTCM Typically SBAS positioning accuracy Fost static Static (plases) with long observations Fast static Horizontal: 25cm+1ppm Vertical: 50cm+1ppm Typically c 5m 30kMS Static (plases) with long observations Fast static Horizontal: 25cm+1ppm Vertical: 50cm+1ppm Typically c 5m 30kMS Retwork RTK Horizontal: 25cm+1ppm Vertical: 50cm+1ppm Wertical: 50cm+1ppm Wertical		
Positioning precision Positioning output rate: Hir*SGH: Initialization times: 10s Initialization reliability: 99.99% Positioning precision Positioning precision Positioning accuracy Tryically: 5m 30RMS Positioning accuracy Tryically: 5m 30RMS Positioning accuracy Tryically: 5m 30RMS Positioning accuracy Projectally: 5mm-0.5ppm Projectally:		
Initialization times-108 Initialization reliability-99-99% Positioning precision Code differential DGPS/RTCM Typically SBAS positioning accuracy Typically < 5m 30MMS Typically	CNICC feetures	
Initialization reliability-99.99% Positioning precision	GNSS features	
Positioning precision Code differential DGPS/RTCM Typically SBAS positioning accuracy Typically < 5 m 3 DMMS		
Code differential GGPS/RTCM Typically Horizontal: 25mm+gpm Vertical: 50mm+gpm Static (phase) with long observations Fast static Horizontal: 2.5 mm+0.5 ppm Vertical: 5mm+0.5 ppm Verti	n transfer to the second	Initialization reliability:>99.99%
SBAS positioning accuracy Static (phase) with long observations Fast static Horizontal: 35mm+0.5ppm Vertical: 5mm+0.5ppm Horizontal: 35mm+0.5ppm Vertical: 5mm+0.5ppm Horizontal: 35mm+0.5ppm Vertical: 5mm+0.5ppm Horizontal: 35mm+0.5ppm Vertical: 15mm+0.5ppm Network RTK Horizontal: 35mm+0.5ppm Vertical: 15mm+0.5ppm Vertical: 15mm+0.5ppm Network RTK Horizontal: 35mm+0.5ppm Vertical: 15mm+0.5ppm Ve		
Static (phase) with long observations Horizontal: 23mm+0.5ppm Vertical: Smm+0.5ppm Horizontal: 23mm+0.5ppm Vertical: 15mm+0.5ppm Vertical:		
Real-time Kinematic surveying		
Read-time Kinematic surveying		
Network RTK Horizontal: 8mm+0.5ppm Vertical: 15mm+0.5ppm Vertical: 15mm+0.5ppm Str Interaction Unix		
STK initialization time User interaction Uper aing system Union		
Section		
Departing system		2~8s
Buttons		
Meb U		·
Web UI		
Voice guide IVoice intelligent voice technology provides status and voice guide Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define International Chinese		
Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define	11000	
Hardware performance Dimension 129mm(Diameter)x112mm(Height)	voice guide	
Dimension 129mm(Diameter)x112mm(Height) Weight 1kg(Dattery included) Material Magnesium aluminum alloy shell 45°C"+60°C Storag -45°C"+60°C Magnesium aluminum alloy shell -45°C"+60°C Magnesium aluminum alloy shell -45°C"+60°C -45°C"+60°C		Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define
Magensium aluminum alloy shell Magensium aluminum aluminum alloy shell Magensium aluminum alu		
Magnesium aluminum alloy shell Operating -45°C*+60°C Storag -55°C*+85°C Storag -55°C*+85°C Humidity 100% Non-condensing Waterproof/Dustproof IP67 standard, protected from long time immersion to depth of 1m IP67 standard, fully protected against blowing dust Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally , MIL-STD-810G Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7-4V; Static: 7 Hours; UHF base: 5 Hours; Rover: 6 Hours Communications I/O port 5-PIN LEMO port, 7-PIN USB port (OTG) 1 TNC radio antenna interface, SIM card slot UHF modem Built-in radio, 1W/2W/3W switchable, typically work range can be 8KM Radio and internet repeater switchable Frequency Range 410-470MHz Communication Protocol TrimTalk450s, SOUTH, SOUTH+, huace, Hi-Target, Satel Celiular Mobile Network TDD-LTE/FDD-LTE 4G modem, downward compatible with WCDMA/CDMA2000 3G and GPRS/EDGE 2G network Double Module Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard NFC Communication Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) WIFI Standard 802.11 b/g standard WIFI Hotspot The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver The WIFI hotspot allows as the datalink that receiver is able to broadcast and receive differential data via WIFI Data storage/Transmission USB data transmission, USB data transmission, upporting FTP/HTPT Pd data download Differential data format: CMR+, CMR+, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: CMR+, CMR+, RTCM 2.3, RTCM 3.3, RTCM 3.7, RTCM 3.6 GPS output data format: CMR+, CMR+, RTCM 2.3, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: CMR+, CMR+, RTCM 2.3, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMR+ 0188, PtR plane coordinates, Binary code, Tr		
Operating -45°C*+60°C Storag -55°C*+85°C Humidity 100% Non-condensing Waterproof/Dustproof IP67 standard, protected from long time immersion to depth of 1m IP67 standard, fully protected against blowing dust Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally , MIL-STD-810G Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7-4V; Static: 7 Hours; UHF base: 5 Hours; Rover: 6 Hours		
Storag		
Humidity 100% Non-condensing IP67 standard, protected from long time immersion to depth of 1m IP67 standard, protected against blowing dust Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally , MIL-STD-810G Power Supply 9-259 VC, overvoltage protection Power Supply 8-259 VC, overvoltage protection Rechargeable, removable Lithium-ion battery, 7.4V; Static: 7 Hours; UHF base: 5 Hours; Rover: 6 Hours Communications IV70 port S-PIN LEMO port, 7-PIN USB port (OTG) 1 TNC radio antenna interface, SIM card slot Suilt-in radio, 1W/2W/3M switchable, typically work range can be 8KM Radio and internet repeater switchable Frequency Range 410-470MHz Suilt-in radio, 1W/2W/3M switchable, typically work range can be 8KM Radio and internet repeater switchable Frequency Range 410-470MHz TimiTalk450s, SOUTH, SOUTH+, huace, Hi-Target, Satel Cellular Mobile Network TDD-ITE/FDD-ITE 4G modem, downward compatible with WCDMA/CDMA2000 3G and GPRS/EDGE 2G network Double Module Bluetooth 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) Standard 802.11 b/g standard 802.11 b/g standard 802.11 b/g standard Standard 802.11 b/g standard	·	
Waterproof/Dustproof IP67 standard, protected from long time immersion to depth of 1m IP67 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally, MIL-STD-810G		
IP67 standard, fully protected against blowing dust		
Shock and vibration	Waterproof/Dustproof	
Power Supply S-25V DC, overvoltage protection		
Battery		
Communications 1/O port		
I/O port S-PIN LEMO port, 7-PIN USB port (OTG) 1 TNC radio antenna interface, SIM card slot		Rechargeable, removable Lithium-ion battery, 7.4V; Static: 7 Hours; UHF base: 5 Hours; Rover: 6 Hours
UHF modem Built-in radio, 1W/2W/3W switchable, typically work range can be 8KM Radio and internet repeater switchable Frequency Range 410-470MHz Communication Protocol Cellular Mobile Network Double Module Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard NFC Communication Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) WIFI Standard WIFI Hotspot The WIFI hotspot and moditor receiver WIFI data link To work as the datalink that receiver is able to broadcast and receive differential data via WIFI Data storage/Transmission Data Storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Format Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PIK plane coordinates, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol Inertial sensing system Tilt survey (optional) ^{NI} Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
UHF modem	I/O port	
Radio and internet repeater switchable Frequency Range		
Frequency Range	UHF modem	
Communication Protocol Cellular Mobile Network Double Module Bluetooth Double		· · · · · · · · · · · · · · · · · · ·
Cellular Mobile Network Double Module Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard NFC Communication Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) WIFI Standard WIFI Hotspot The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver WIFI data link Data storage/ Transmission Data Storage 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Format Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PIK plane coordinates, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
Double Module Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard		TrimTalk450s, SOUTH, SOUTH+, huace, Hi-Target, Satel
Bluetooth 2.1 + EDR standard NFC Communication Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) WIFI Standard WIFI Hotspot The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver WIFI data link To work as the datalink that receiver is able to broadcast and receive differential data via WIFI Data storage/ Transmission Data Storage 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Transmission USB data transmission, supporting FTP/HTTP data download Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) ^[2] Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
NFC Communication Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) WIFI Standard 802.11 b/g standard WIFI Hotspot The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver WIFI data link To work as the datalink that receiver is able to broadcast and receive differential data via WIFI Data storage/ Transmission Data Storage 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Format Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle	Double Module Bluetooth	
(controller equipped NFC wireless communication module needed) WIFI Standard WIFI Hotspot The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver WIFI data link Data storage/ Transmission Data Storage 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Transmission Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
Standard Substitute	NFC Communication	
Standard 802.11 b/g standard		(controller equipped NFC wireless communication module needed)
WIFI data link Data storage/ Transmission Data Transmission Data Transmission Data Format Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) To work as the datalinws any mobile terminal to connect and access to the internal webserver for the control and moditor receiver and moditor receiver Tilt survey (optional) To work as the datalinws any mobile terminal to connect and access to the internal webserver for the control and moditor receiver and moditor receiver Tile survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
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To work as the datalink that receiver is able to broadcast and receive differential data via WIFI	WIFI Hotspot	
Data Storage BGB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Transmission USB data transmission, supporting FTP/HTTP data download Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
Data Storage 8GB SSD internal storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Transmission USB data transmission, supporting FTP/HTTP data download Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) ^[2] Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		To work as the datalink that receiver is able to broadcast and receive differential data via WIFI
Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Transmission USB data transmission, supporting FTP/HTTP data download Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle	Data storage/ Transmission	
Changeable record interval, up to 50Hz raw data collection Data Transmission USB data transmission, supporting FTP/HTTP data download Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) ^[2] Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle	Data Storage	
Data Transmission USB data transmission, supporting FTP/HTTP data download Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
Data Format Differential data format: 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 Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
GPS output data format: NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle	Data Transmission	
Network model support: VRS, FKP, MAC, fully support NTRIP protocol Inertial sensing system	Data Format	
Inertial sensing system Tilt survey (optional) Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		
Tilt survey (optional) ^[2] Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle		Network model support: VRS, FKP, MAC, fully support NTRIP protocol
of the centering red	Tilt survey (optional)[2]	Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle
		of the centering rod
Electronic bubble (optional)[3] Controller software display electronic bubble, checking leveling status of the centering rod real time	Electronic bubble (optional)[3]	
Thermometer Built-in thermomter sensors, adopting intelligent temperature control technology which can mornitor and	Thermometer	
adjust the temperature of receiver in real time		adjust the temperature of receiver in real time

- [1] The OEM board with 555 channels reserves the function of tracking L-Band from TerraStar, it requires a subscription to TerraStar data service.
 [2] Tilt sensor is not the standard configuration on new Galaxy G1.
 [3] Bonding with tilt sensor, electronic bubble also is an option for new Galaxy G1.



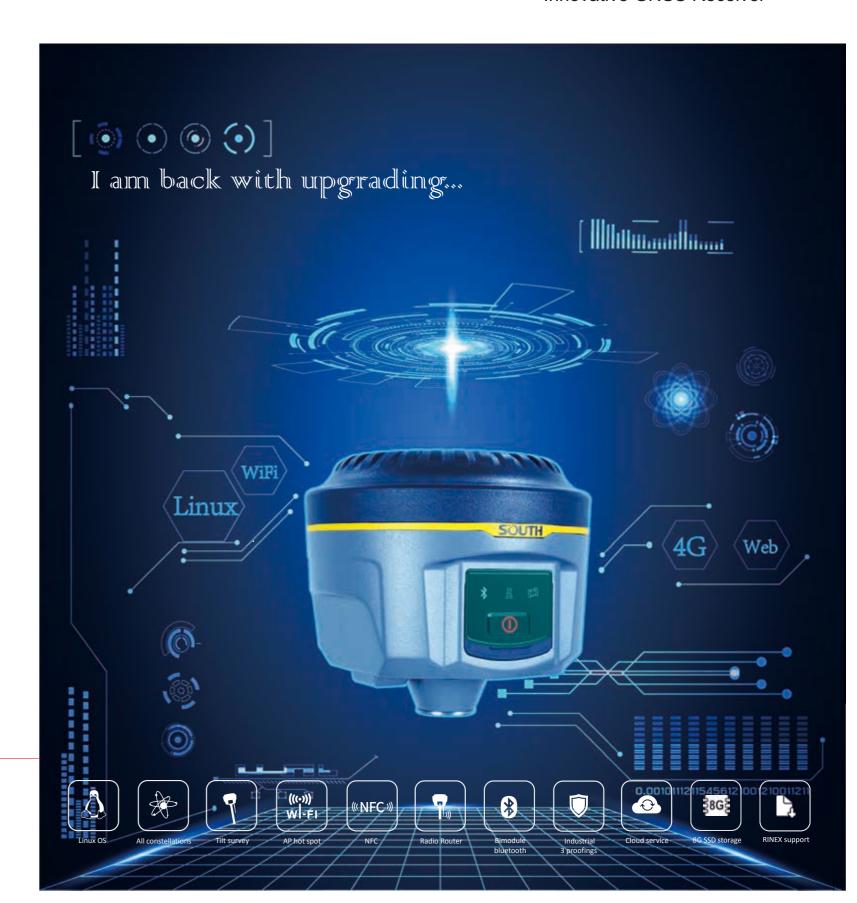
SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: South Geo-information Industrial Park, No. 39 Si Cheng Road, Tian He IBD, Guangzhou 510663, China 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



New GALAXY G1

Innovative GNSS Receiver —



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 produce of surveying and mapping information age.

In the form of the ubiquitous, internet is penetrating and fusion in all comes of the surveying lecthology, and setting off an unprecedence reconstruction and transformation.

In the dawn of a new cas, south is walking in front off in trausment new Glasy y which opening a "I" era of high-pressure positioning applications.

KEY FEATURES



GNSS features

The new G1 has more options for GNSS board selection, and all of them own the ability of tracking most signals from all kinds of running satellite constellations. And this compact device is allowed to enable and disable tracking the constellations.

Bluetooth

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.



NF

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





Tilt survey

Tilt surve

The internal tilt sensor helps receiver to survey without centering, in order to improve survey efficiency, and tilt angle can reach 30 degree maximum.

Temperature control technology

Built-in sensitive thermometer sensors can monitor the temperature of each integrated modules in real time and then adjust it to make sure the receiver is in a best status.



OPTIMIZING

Easy-to-use of SIM slot

The new design of SIM card slot avoid inserting wrong place, and it is easy to insert and take out the SIM card.

Stable TNC radio interface

The more stable TNC interface is adopted for radio antenna to instead the flimsy SMA interface.





UPGRADES

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.





Web UI management platform

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.

Advanced WiFi technology

Adopting the advanced wifi technology as datalink which improves the measurement result, at the meantime, the wifi AP hotspot function makes any smart terminals can connect to the receiver to control it.





Excellent network modem

The new G1 is equipped with the up-to-date 4G module which supports TDD-LTE/FDD-LTE 4G network, and is downward compatible with 3G like WCDMA/CDMA2000 and GPRS/EDGE 2G network, it brings high-speed of communication with reference station.

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. And the radio module achieved approval CE and FCC certifications.



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.





Intelligent 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 enough.