SPECIFICATIONS

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Signal tracking 220 channels (standard),855 channels (optional), 555 channels (optional), ²¹³ BeiDou (B), 22, 83, GPS (L1C/A, L1C, L2C, L5), Generation (L1C/A, L1P, L2A, L2P, L3), Generation (L1C/A, L1P, L2A, L2P, L3), Colos (B), 22, 25, 25, 25, 25, 25, 25, 25, 25, 25	Satellite Signals Tracked Simultaneous	
Instrument Bip Doug (B1, B2, B3) The second processing decomposition of constraints of the second processing decomposition decomposite decomposition decompositis decomposition decompositis		
eFS (LC/A, LIC, LiZ, LIZ, LIZ, LIZ, LIZ, LIZ, LIZ, LIZ, LI		
Gelles (EL, Sa, ES, AL, BASC, E6) Geness (LC), LP, L2C, LP, L3C, LP, L3 GNSS features Positioning section Formation (LC), LP, L2C, LP, L3C, LP, L3C, LD, LC, L2C, LS, LEX) GNSS features Positioning section Formation (LC), LP, L2C, LY, LSK, LD, LC, LC, L2C, LS, LEX) Code differential DEPS/RCM Mytically Horizontal: Score Jopm Code differential DEPS/RCM Mytically Horizontal: Score Jopm Feat-lines (Kneematic surveying Horizontal: Score Jopm Vertical: Smm+0, Spam RTK Initialization time 2~38. User Interaction Operaing system Univ Filteraction Operaing system User Interaction Supporting Chinese, English, Korean, Russian, Portuguess, Spanish, Turkish and user define Supporting Chinese, English, Korean, Russian, Portuguess, Spanish, Turkish and user define Immediate Lights Vertice Joperating system 123mm(Diameter xL12mm(Height) Weight L12mm(Diameter xL12mm(Height) Weight L12mm(Diameter xL12mm(Height) Weig		
Glonass (LLC/A, LP, L2C/A, L2P, L3) GNSS features Positioning output rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz & 50Hz (depends on installed option) Initialization reliability-393 39K Positioning precision Ross features Positioning precision		
Statures Statures Statures Positioning uptar tate: 1Hz, SHz, SHZ		
CNSS features Positioning output rate:1Hz, 2Hz, 5Hz, 10Hz, 20Hz & 50Hz (depends on installed option) Initialization reliability:>99 99% Code differential DGRF/ARCM Typically Previound 12:5cm=1ppm Vertical: Som=1ppm Vertical: Som=1ppm State (phase) with long observations Horizontal: Smm-1ppm Horizontal: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Horizontal: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Vertical: Smm-1ppm Voice guide Noice Intelligent voice technology provides status and voice guide Voice Intelligent voice technology provides status and voice guide Supportion Hardware performance Supporting Chnese, Englich, Korean, Russian, Portugues, Spanish, Turkish a		
Initialization reliability:>99.39% Code differential DGF/SRUCM Typically Horizontal: 25cm-1ppm Vertical: Scm+1ppm Static Iphase) with long observations Incritontal: 35cm-10pm Vertical: Scm+0.5pm Real-time Klemantic surveying Horizontal: 35cm+10pm Vertical: Scm+0.5pm Network RTK Horizontal: 35cm+0.5pm Vertical: Scm+0.5pm RTK initialization time 2*8 Static phase) with long observations Indicators Three indicate lights Static phase) with long observations Indicators Three indicate lights Vertical: Scm+0.0ppm Voice guide Noice indicate lights Vertical: Scm+0.0ppm Voice guide Noice indicate lights Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define JageNetry included Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Methysis 14g/detry included Vertical: Scm+10pm Methysis 14g/genetry included Vertical: Scm+10pm Methysis 14g/genetry included Vertical: Scm+10pm Methysis 14g/genetry included Vertical: Scm+10pm Methysis 14g	GNSS features	
Evolutioning precision Vertical: Scm+1ppm Vertical: Scm+1ppm SBAS positioning accuracy Typically: 5:m 30.RMS Stm+1ppm Vertical: Scm+1ppm SBAS positioning accuracy Typically: 5:m 30.RMS Stm+1ppm Vertical: Scm+1ppm Static (bhase) with long observation Horizontal: 8:mm+1ppm Vertical: Scm+1ppm Vertical: Scm+1ppm Network RTK Horizontal: 8:mm+1ppm Vertical: Scm+1ppm Vertical: Scm+1ppm Metwork RTK Horizontal: 2:mm+0.Sppm Vertical: Scm+1ppm Vertical: Scm+1ppm Metwork RTK Horizontal: 2:mm+0.Sppm Vertical: Scm+1ppm Vertical: Scm+1ppm Metwork RTK Freely to cordigue and monitor the receiver by accessing to the web server via Wi-F1 and USB Vertical: Scm+1ppm Viote guide Voice intelligent viote techohology provid		Initialization time:<10s
Code differential DGPS/RTCM Typically Horizontal: 25cm 1ppm StaSp positioning accuracy Typically 5 m 308MS Static (phase) with long observations Horizontal: 25cm 1ppm Real-time Kinematic surveying Horizontal: 8mm-1ppm Network RTK Horizontal: 8mm-1ppm RK Initialization time 2 *8 User Interaction 2 Operaing system Linux Buttons Single button operation Indicators Three indicate lights Voice parl Preally to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB Voice parl Horizontal: 8mm-1ppm Voice parl Horizontal: Simm/Oppm Provides status and voice guide Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Handware performance 129mm(height) Operating +55 C*+60°C Humidity 100% Kon-condensing Waterproof/Dustgroof IP68 standard, protected from long time immersion to depth of 1m IP68 standard, protected from long time immersion to depth of 1m IP68 standard, protected from long time immersion to depth of 1m IP68 standard, protected from lon		Initialization reliability:>99.99%
SBAS positioning accuracy Typically < 5m 308Mis	Positioning precision	
Static (phase) with long observations Horizontal: 8.mm-0.5pm Vertical: 5.mm-1.0pm Rel-time Kinematic surveying Horizontal: 8.mm-0.5pm Vertical: 5.mm-1.0pm Network RTK Horizontal: 8.mm-0.5pm Vertical: 5.mm-1.0pm RK: Initialization time 2-8. User Interaction Operaing system I.inux Buttons Single button operation Indicators Three indicate lights Three indicate lights Vertical: 5.mm+0.5pm Veice guide Voice guide User indicate lights Veice guide Veice guide Noice intelligent voice technology provides status and voice guide Supporting Chinese, English, Koran, Russian, Portuguese, Spanish, Turkish and user define Hardware performance Dimension 129mm(Dameter)x112mm(Height) Weight Tigg Standard, Fully protected against blowing dust Material Magnesium aluminum alloy shell Operating -455°C - K85°C Humidity 100% Non-condensing Weight and Standard, fully protected against blowing dust Shock and wbration Weithstand 2 meters pole drop onto the cement ground naturally Power Supply Power Supply 9.25V Co. ovenvolage protection again and standard,	Code differential DGPS/RTCM Typically	Horizontal: 25cm+1ppm Vertical: 50cm+1ppm
Real-time Kinematic surveying Horizontal: 8mm+10pm Vertical: 15mm+10pm Network RTK Horizontal: 8mm+0.0pm Vertical: 15mm+0.5ppm Operang system Linux User interaction Operang system Linux Linux Buttons Single button operation Indicators Three indicate lights Three indicate lights Voice untelligent voice technology provides status and voice guide Voice intelligent voice technology provides status and voice guide Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Hardware performance Dimension 129mm(Diameter)k112mm(Height) Weight 1kg(battery included) Material Magnesium aluminum aloy shell Operaning -45°C+60°C Storag -45°C+60°C Storag -45°C+60°C Vaterproof/Dustproof IP68 standard, protected from long time immersion to depth of 1m IP68 standard, protected from long time immersion to depth of 1m IP68 standard, protected from long time immersion to depth of 1m IP68 standard, protected from long time immersion to depth of 1m IP68 standard, foretected from long time immersion to depth of 1m	SBAS positioning accuracy	Typically < 5m 3DRMS
Interaction Horizontal: Berni-O.Sppm Vertical: 15mm+0.Sppm User Interaction 2*8; User Interaction 2*8; Buttons Single button operation Indicators Three indicate lights Web UI Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB Voice guide Voice full Voice guide Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB Voice guide Voice guide Value performance Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Handware performance 129mm(Diameter/h12mm(Height) Weight Ligk standard, protected from long time immersion to depth of 1m Operating -55°C *48°C Humidity 100% Non-condensing Waterproof/Dustproof IP68 standard, protected from long time immersion to depth of 1m IP68 standard, Portocted from long time immersion to depth of 1m IP68 standard, Nutry Portected against blowing dust VD op ort 5-PIN LEMO port, 7-PIN USB port (with OTG) ITh Cradio antenna interface, SIM card slot UHF modern Built-in radio, JU	Static (phase) with long observations	Horizontal: 2.5mm+0.5ppm Vertical: 5mm+0.5ppm
TWE initialization time 2~8; D Operaing system Linux Operaing system Linux Buttons Single button operation Indicators Three indicate lights Web UI Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB Voice guide Voice intelligent voice technology provides status and voice guide Hardware performance Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Hardware performance 12gmm[Diameteryh112mm[Height] Weight Lightatrey included] Material Magenian duminum alloy shell Operaining -45°C+46°C Storag -55°C+46°C Waterproof/Dustproof IP68 standard, protexted from long time immersion to depth of 1m IP68 standard, fully protexted against blowing dust Witherad 2 melers pole drog onto the cement ground naturally Power Supply 9-35V DC, overvoltage protection Shat and Vikitabile 2, typically work range can be 8KM Gommunications FUM IEMO port, FUM USB port (with NG To) ITMC radio anterna interface, SIM card slot I/O port FMN IEMO port, FUM USB port (with NG To) <t< td=""><td>Real-time Kinematic surveying</td><td>Horizontal: 8mm+1ppm Vertical: 15mm+1ppm</td></t<>	Real-time Kinematic surveying	Horizontal: 8mm+1ppm Vertical: 15mm+1ppm
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Operaing system Linux Suttons Single button operation Indicators Three indicate lights Web U Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB Voice intelligent voice technology provides status and voice guide Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Hardware performance Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define Weight Lightattery included) Material Magenesium aluminum alloy shell Operating -45°C+40°C Storag -55°C+48°C Humidity 100% Non-condensing Waterproof/Dustproof IP68 standard, fully protected gainst blowing dust Shock and whation Withshand 2 meters pole drop onto the cenent ground naturally Power Supply 5-25V DC, overvolage protection Battery Rechargeable, removable Lithium-ton battery, 7.4V; standard four batteries power package(optional) I/O port Influence treater switchable I/O port S-PIN USB port (with OTG) I/O port Influence treater switchable Frequery Range 410 4700Htk		2~8s
Buttons Single button operation Indicators Three indicate lights Web UI Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB Voice guide Voice intelligent voice technology provides status and voice guide Buttons 129mm(Diameter)k112mm(Height) Weight 11g/battery included) Material Magnesium aluminum alloy shell Operating -45°C-60°C Storage -55°C-85°C Humidity 100% Kon-condensing Waterproof/Dustproof IP68 standard, protected rom long time immersion to depth of 1m P6 100% Kon-condensing Waterproof/Dustproof IP68 standard, protected rom long time immersion to depth of 1m P6 was Supply 9-25 V DC, overvoltage protection Battery Rechargeable, removable Lthium-ion battery, 7.4V; standard four batteries power package(optional) Communications -51N LEMO port, 7-PIN USB port (with OTG) I ThC radio and internet repeater switchable Radio and internet repeater switchable Frequency Range 410-470MHz Communication Communication Realistandard Rupy Shandard		
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Hardware performance 129mm(Diameter)x112mm(Height) Dimension 129mm(Diameter)x112mm(Height) Weight 1kg(battery included) Material Magnesium aluminum alloy shell Operating -45°C*+60°C Storag -55°C*+85°C Humidity 100% Non-condensing Waterproof/Dustproof IP68 standard, protected against blowing dust Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7.4V; standard four batteries power package(optional) Communications 1/VC port JO port 5-PIN LEMO port, 7-PIN USB port (with OTG) UF modem Built-In radio, 1/V/2W/3W switchable, typically work range can be 8KM Radio and interner trepeater switchable Frequency Range Cellular Mobile Network TDD-LTE/FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G and GPRS/EDGE 2G Double Module Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Butetorth 2.1 + EDR standard MVF WFI Standard WFI	Voice guide	
Dimension 129mm(Diameter/x112mm(Height) Weight 1kg(battery included) Material Magnesium aluminum alloy shell Operating -45°C+60°C Storag -55°C+85°C Humidity 100% Non-condensing Waterproof/Dustproof IP68 standard, fully protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Power Supply Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7.4V; standard four batteries power package(optional) Communications I/C port I/D port 5-PIN LEMO port, 7-PIN USB port (with OTG) UHF modem Built-in radio, 1W/2W/3W switchable, typically work range can be 8KM Frequency Range 410-470MHz Communication Protocol TrimTalk, SOUTH, SOUTH+, SOUTH-kuace, ZHD, Satel Cellular Mobile Network TDD-1TF/FDD-1Te 4 G network modem, downward compatible with WCDMA/CDMA2000 3G and GPRS/EDGE 2G Double Module Bluetooth BLEBluetont A.0 standard, support for android, ios cellphone connection WIFI 0		Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define
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IP68 standard, fully protected against blowing dust Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7.4V; standard four batteries power package(optional) Communications Internationa (/O port 5-PIN LEMO port, 7-PIN USB port (with OTG) UHF modern Builtin radio, UW/2W/3W switchable, typically work range can be 8KM Frequency Range 410-4700MHz Communication Protocol TrimTalk, SOUTH, SOU		· · · · · · · · · · · · · · · · · · ·
Shock and vibration Withstand 2 meters pole drop onto the cement ground naturally Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7.4V; standard four batteries power package(optional) Communications IVD port 1/O port 5-PIN LEMO port, 7-PIN USB port (with OTG) 1 TNC radio antenna interface, SIM card slot Radio and internet repeater switchable Radio and internet repeater switchable Radio and internet repeater switchable Frequency Range 410-470MHz Communication Protocol TrimTalk, SOUTH, SOUTH, SOUTH, SOUTH, SOUTH, SOUTH, SOUTH, SOUTH, Soure Communication Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth Bluetooth 2.1 + EDR standard Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller equipped NFC wireless communication module needed) WiFI Standard Standard 802.11 b/g standard The WiFI hotspot The WiFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and moditor receiver WiFI Standard 802.11 b/g standard Data storage/ Transmission	Waterproof/Dustproof	
Power Supply 9-25V DC, overvoltage protection Battery Rechargeable, removable Lithium-ion battery, 7.4V; standard four batteries power package(optional) Communications Image: Standard Standa		
Battery Rechargeable, removable Lithium-ion battery, 7.4V; standard four batteries power package(optional) Communications 5-PIN LEMO port, 7-PIN USB port (with OTG) 1/O port 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, typically work range can be 8KM Communication Protocol TrimTalk, SOUTH+, SOUTH+, SOUTH, huace, ZHD, Satel Cellular Mobile Network TDD-LTE/FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G and GPRS/EDGE 2G Double Mobile Network TDD-LTE/FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G and GPRS/EDGE 2G Double Module Bluetooth BLEBluetooth 4.0 standard, support for android, ios cellphone connection Bluetooth 2.1 + EDR standard NFC Communication module needed) WIFI Gommunication module needed) WIFI Buetototh 1b fg standard WIFI data link To work as the datalink that receiver is able to broadcast and receive differential data via WIFI Data storage Support external USB storage and automatical cycle storage Support external USB storage and automatical cycle storage Changeable record interval, up to 50Hz raw data collection Data Storage Support		
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of the centering roo		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 thermometer sensors, adopting intelligent temperature control technology which can mornitor and		
adjust the temperature of receiver in real time		
		· · ·

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

SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

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- Innovative GNSS Receiver -

Behind every significant epoch-making change in human societ always accompanied by the birth of an important technology.

Computer and electronics make surveying and mapping industry achieve a spa from the analog age to the digital age

And the dev lopment of Internet technology further opens the prelude surveying and mapping information age

In the form of the ubig ating and fusi

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.

NFC

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



Tilt survey

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

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.

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.







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.





Intelligent storage technology