

## SPECIFICATIONS

Satellite signals tracked simultaneously	
Signal tracking	965 channels GPS: L1, L1C, L2C, L2P, L5 GLO: G1, G2, G3 BDS: BDS-2: B1I, B2I, B3I BDS-3: B1I, B3I, B1C, B2a, B2b* GAL: E1, E5A, E5B, E6C, AltBOC* QZSS: L1, L2C, L5* SBAS: L1* IRNSS: L5* MSS L-Band (Reserve) Positioning output rate: 1Hz~20Hz
GNSS features	Initialization time: <10s Initialization reliability: >99.99%
Positioning precision	
Code differential GNSS positioning	Horizontal: $\pm 0.25m + 1ppm$ Vertical: $\pm 0.50m + 1ppm$ SBAS positioning accuracy: Typically <5m 3DRMS
Static GNSS surveying	Horizontal: $\pm 2.5mm + 0.5ppm$ Vertical: $\pm 5mm + 0.5ppm$
Real-time kinematic surveying	Horizontal: $\pm 8mm + 1ppm$ Vertical: $\pm 15mm + 1ppm$
Network RTK	Horizontal: $\pm 8mm + 0.5ppm$ Vertical: $\pm 15mm + 0.5ppm$
IMU tilt angle	0°~60°
User interaction	
Operating system	Linux
Buttons	Onebutton operation
Indicators	Fourindicate 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	
Hardware performance	Providing secondary development package
Dimension	
Dimension	135mm(Diameter)x84.75mm(Height)
Weight	0.97kg (battery included)
Material	Magnesium aluminum alloy shell
Operating	-45°C~+70°C
Storage	-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
Power Supply	9-28V DC, overvoltage protection
Battery	Internal Li-on, 6800mAh, 3.7V
Battery life	Static mode 10 h, Rover mode 8h, Base mode 8h
Communications	
I/O port	5PIN LEMO external power port + RS232, 7PIN external USB(OTG)+Ethernet 1 radio antenna interface
Wireless modem	Built-in radio, 1W, typically work range can be 5KM Radio repeater
Frequency Range	410-470MHz
Communication Protocol	Farlink, Trimtalk450s, SOUTH, HUACE, Hi-target, Satel
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
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 20Hz raw data collection
Data Transmission	USB data transmission, supporting FTP/HTTP data download
Data Format	Differential data format: CMR, sCMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA0183, PJK plane coordinates, Binary code Network model support: VRS, FKP, MAC, fully support NTRIP protocol
Inertial sensing system	
Tilt angle	Up to 60 degrees
Electronic bubble	Controller software display electronic bubble, checking leveling status of the centering rod real time
Thermometer	Built-in thermomter sensors, adopting intelligent temperature control technology which can monitor and adjust the temperature of receiver in real time

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# GALAXY G7

— Brand new diminutive RTK receiver —



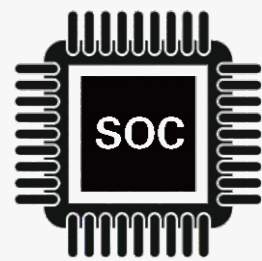
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- |                    |      |                   |               |
|--------------------|------|-------------------|---------------|
| Linux OS           | WIFI | WEB UI            | HD Ivoice     |
| All Constellations | IMU  | Electronic Bubble | IP67          |
| 8GB SSD storage    | OTG  | NFC               | Bluetooth 4.0 |



## Outstanding GNSS performance >>>

Equipped with new generation the most powerful GNSS RTK engine with 965 channels, G7 can track signal from all constellations including B3 signal of BDS satellites. Its high-performance GNSS antenna is upgraded with strong anti-interference ability and sensitive satellite signal capture ability, to track more satellite in harsh environments. system is much higher, it can be adapt to the job of longer uninterrupted power.

## Long Range radio link >>>

Built-in transceiver integrated radio, working frequency 410-470MHz. TrimTalk450S, TrimMark3, SOUTH, CHC, SATEL, HI-TARGET are all compatible. Equipped with Far-Link "Simultaneous" radio module, based on Farlink protocol, it can increase the sensitivity and efficiency of radio signal, achieve the typical working range as 5KM operation, and meet the needs of customers for small and medium-scale.



## Ultimate portability >>>

Highly integrated GNSS antenna, Bluetooth module and WIFI module, leading the design trend of miniaturization, light weight, and portable RTK to a new height. Magnesium alloy housing, tough line design, more delicate surface decoration, stronger sense of technological design, more durable.



## Barrier-Free Measurement >>>

Built-in 6800mAh high-capacity battery, the battery life is more than 10 hours, one charge, meets all-day work. Equipped with fast charging charger, which can be fully charged within 5 hours. The battery core can be recharged with long life, and performance is more secure and reliable.

## Innovative design >>>



Single button boot design, one button evokes all RTK operations. The body screen adopts a translucent high-strength panel, which has a stronger visual sense of technology. Plus four indicator lights, common information is clear at a glance. Double speaker design, three-dimensional sound broadcast, remove noise barriers, and receive clearer sound.

## IMU survey >>>

Built-in IMU compensator, correct the coordinates according to the tilt direction and angle of the centering rod automatically within 60°, assist you quickly and accurately survey or stake out points without leveling the pole, improve working efficiency by 20%.

