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GALAXY G2

— Brand new diminutive RTK receiver —



Simple and elegant
without losing precision

SPECIFICATIONS

GNSS Features

Channels.....	965
GPS.....	L1, L1C, L2C, L2P, L5
GLONASS.....	G1, G2, G3
BDS.....	BDS-2: B1I, B2I, B3I BDS-3: B1I, B3I, B1C, B2a, B2b*
GALILEOS.....	E1, E5A, E5B, E6C, AltBOC*
SBAS.....	L1*
IRNSS.....	L5*
QZSS.....	L1, L2C, L5*
MSS L-Band (Reserve)	
Positioning output rate.....	1Hz~20Hz
Initialization time.....	< 10s
Initialization reliability.....	> 99.99%

Positioning Precision

Code differential GNSS positioning....	Horizontal: 0.25 m + 1 ppm RMS Vertical: 0.50 m + 1 ppm RMS
GNSS static.....	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS
Real-time kinematic.....	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS
(Baseline<30km)	
SBAS positioning.....	Typically < 5m 3DRMS
RTK initialization time.....	2 ~ 8s
IMU tilt angle.....	0° ~ 60°

Hardware Performance

Dimension.....	130.5mm(φ) × 84mm(H)
Weight.....	850g (battery included)
Material.....	Magnesium aluminum alloy shell
Operating temperature.....	-25°C ~ +65°C
Storage temperature.....	-35°C ~ +80°C
Humidity.....	100% Non-condensing
Waterproof/Dustproof.....	IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust
Shock/Vibration.....	Withstand 2 meters pole drop onto the cement ground naturally
Power supply.....	6-28V DC, overvoltage protection
Battery.....	Inbuilt 6800mAh rechargeable, Li-ion battery
Battery life.....	Single battery: 16h (static mode) 8h (Base) 15h (Rover + Bluetooth)

Communications

I/O Port.....	5PIN LEMO external power port + Rs232 Type-C interface (charge + OTG + Ethernet) SIM card slot (Micro SIM)
Communication protocol.....	Farlink, Trimtalk450s, SOUTH, SOUTH+, SOUTHx, HUACE, Hi-target, Satel
Communication range.....	Typically 8km with Farlink protocol
Cellular mobile network.....	4G cellular module standard, customizable 5G module
Bluetooth.....	Bluetooth 3.0/4.1 standard, Bluetooth 2.1 + EDR
NFC Communication.....	Realizing close range (shorter than 10cm) automatic pair between receiver and controller (controller requires NFC wireless communication module else)

WIFI

Modem.....	802.11 b/g standard
WIFI hotspot.....	Receiver broadcasts its hotspot form web UI accessing with any mobile terminals
WIFI datalink.....	Receiver can transmit and receive correction data stream via WiFi datalink

Data Storage/Transmission

Storage... 8GB SSD internal storage standard, extendable up to 64GB	Automatic cycle storage (The earliest data files will be removed automatically while the memory is not enough)
	Support external USB storage
	The customizable sample interval is up to 20Hz
Data transmission.....	Plug and play mode of USB data transmission Supports FTP/HTTP data download
Data format.....	Static data format: STH, Rinex2.01, Rinex3.02 and etc. 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 coordinate, Binary code, Trimble GSOF Network model support: VRS, FKP, MAC, fully support NTRIP protocol

Sensors

Electronic bubble.....	Controller software can display electronic bubble, checking leveling status of the carbon pole in real-time
IMU.....	Built-in IMU module, calibration-free and immune to magnetic interference
Thermometer.....	Built-in thermometer sensor, adopting intelligent temperature control technology, monitoring and adjusting the receiver temperature

User Interaction

Operating system.....	Linux
Buttons.....	Single button
Indicators.....	5 LED indicators
Web interaction.....	With the access of the internal web interface management via WiFi or USB connection, users are able to monitor the receiver status and change the configurations freely
Voice guidance.....	It provides status and operation voice guidance, and supports Chinese/English/ Korean/Spanish/Portuguese/Russian/Turkish
Secondary development.....	Provides secondary development package, and opens the OpenSIC observation data format and interaction interface definition
Cloud service.....	The powerful cloud platform provides online services like remote manage, firmware update, online register and etc.

Items marked with * will be upgraded with the update of the firmware version

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



ASTELLOG

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imagerie des sols et structures

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