

# GALAXY G1 PLUS

## SPECIFICATIONS

<b>Satellite Signals Tracked Simultaneously</b>	
Signal tracking	220 channels, 555 channels( optional) BDS B1,B2 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
GNSS features	Positioning output rate:1Hz~50Hz Initialization time:<10s Initialization reliability:>99.99%
<b>Positioning precision</b>	
Code differential GNSS positioning	Horizontal: $\pm 0.25\text{m}+1\text{ppm}$ Vertical: $\pm 0.50\text{m}+1\text{ppm}$ SBAS positioning accuracy:typically<5m 3DRMS
Static GNSS surveying	Horizontal: $\pm 2.5\text{mm}+0.5\text{ppm}$ Vertical: $\pm 5\text{mm}+0.5\text{ppm}$
Real-time kinematic surveying	Horizontal: $\pm 8\text{mm}+1\text{ppm}$ Vertical: $\pm 15\text{mm}+1\text{ppm}$
Network RTK	Horizontal: $\pm 8\text{mm}+0.5\text{ppm}$ Vertical: $\pm 15\text{mm}+0.5\text{ppm}$
RTK initialization time	2~8s
<b>User interaction</b>	
Operating 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	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
<b>Hardware performance</b>	
Dimension	129mm(Diameter)x112mm(Height)
Weight	1kg(battery included)
Material	Magnesium aluminum alloy shell
Operating	-45°C~+60°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 3 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)
Battery life	Single battery: >16h (static mode), >10h (internal UHF base mode), >12h (rover mode)
<b>Communications</b>	
I/O port	5PIN LEMO external power port + RS232, 7PIN external USB(OTG)+Ethernet 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	410-470MHz
Communication Protocol	TrimTalk450s, TrimMark3, PCC EOT, SOUTH
Cellular Mobile Network	WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE
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)
External Devices	Optional external GPRS/EDGE dual-mode communication module, switchable; allow to connect external WLAN card
<b>WIFI</b>	
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 monitor receiver
WIFI data link	To work as the datalink that receiver is able to broadcast and receive differential data via WIFI
<b>Data storage/ Transmission</b>	
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
<b>Inertial sensing system</b>	
Tilt survey	Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle of the centering rod
Electronic bubble	Controller software display electronic bubble, checking leveling status of the centering rod real time
Thermometer	Built-in thermometer sensors, adopting intelligent temperature control technology which can monitor and adjust the temperature of receiver in real time