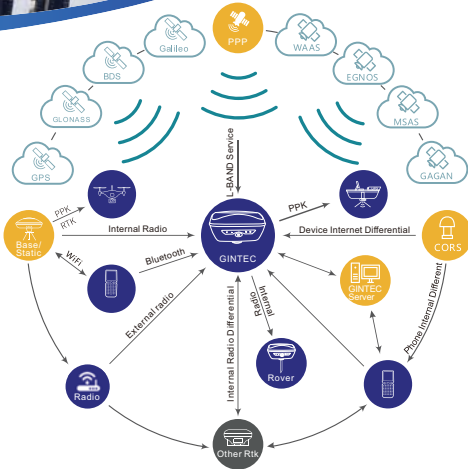


G30

GINTEC



- multi-protocol compatible**
- Radio relay station**
- 4G network**
- Fast-charge tech**
- 5S Fixed**
- stable fixed in complex environment**

Specifications

• Measurement Performance

Signal Tracking	965 Channels GPS:L1, L1C, L2C, L5, L2P GLONASS: G1, G2, G3 BDS-2:B11, B21, B31 BDS-3:B11, B31, B1C, B2a, B2b Galileo: E1, E5a, E5b, E6C SBAS: L1 QZSS: L1, L2C, L5 IRNSS: L5
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GNSS Features	Positioning output rate 1Hz~20Hz Initialization time: < 10s Initialization reliability: > 99.99%
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• Positioning precision

Static GNSS Surveying	Horizontal: ± (2.5mm+0.5ppm) Vertical: ± (5mm+0.5ppm)
Real-Time Kinematic Surveying	Horizontal: ± (8mm+1ppm) Vertical: ± (15mm+1ppm)

• Inertial sensing system

IMU	Support
Tilt Angle	0° - 60°
Tilt compensation accuracy	10 mm + 0.7 mm/°tilt(1.8m pole)
Electronic bubble	Support
Thermometer	Support

• User interaction

Operating system	Linux
Buttons	One button operation
Indicators	Five indicate lights
Web UI	Support to access Web UI via Wi-Fi and USB
Voice guide	Support for multiple languages: Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define

• Hardware Performance

Dimension	135mm(Diameter)x84mm(Height)
Weight	910g
Material	Magnesium aluminum alloy shell
Temperature	Operating: -25°C~+65°C Storage: -35°C~+80°C
Humidity	100% Non-condensing
Protection	IP68
Shock	Withstand 2 meters pole drop

• Power and Battery

Power Supply	6-28V DC, overvoltage protection
Battery	Internal Li-on, 6800mAh, 7.2V
Battery life	Single battery: 16h (static mode), 8h (Base + UHF), 12h (Rover + UHF), 15h (Rover + Bluetooth)

• Communications

I/O port	5PIN LEMO (External power port + RS232) Type-C port (charge + OTG + Ethernet) 1 UHF antenna interface SIM card slot (Medium SIM)
Internal UHF	1W radio receiver and transmitter
Frequency range	410 - 470MHz
Communication protocol	SOUTH, Farlink, TrimTalk, ZHD, HUACE, Satel
Communication range	Typically 8km with Farlink protocol
4G Net work	LTE FDD: B1/B3/B5/B8/B20 LTE TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39 WCDMA: B1/B5/B8 GSM: 850/900/1800/1900MHz
Double Module Bluetooth	Bluetooth 3.0/4.1
NFC	Bluetooth 2.1 + EDR standard Support

• 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

Data Storage	4GB internal storage, Changeable record interval, up to 20Hz raw data collection
Data Transmission	USB data transmission supporting FTP/HTTP data download
Data Format	Static data format: STH, Rinex2.01, Rinex3.02 and etc. Differential data format: RTCM 3.0, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinate, Binary code Network model support: VRS, FKP, MAC, fully support NTRIP protocol

Key Features

- Outstanding GNSS performance**
Equipped with new generation the most powerful GNSS RTK engine with 965 channels, G30 can track signal from all constellations including B3 signal of BDS satellites. G30 adopts high and low frequency integrated antenna design, which using low profile design technology to reduce the physical difference high and low frequency bands, improves phase center consistency, 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.
- Ultimate portability**
Highly integrated GNSS antenna, Bluetooth module and WIFI module, Magnesium alloy housing, the weight of G30 is only 910g, including internal battery, tough line design, more delicate surface decoration, strong sense of technological design, more durable. leading the design trend of miniaturization, light weight, and portable RTK to a new height.
- 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.
- Long Range radio link**
Built-in transceiver integrated radio, working frequency 410-470MHZ, Trim talk 450s, TrimMark3, SOUTH, CHC, SATEL, HI-TARGET are all compatible. The "Farlink" becomes large, which perfectly solves the problem of large data volume of multiple constellations transmission. And the power consumption can reduce about 60% in the same amount of data transmission compare to the traditional RTK, 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.
- Barrier-Free measurement**
The new generation of SOC platform gives RTK more stable performance and lower power consumption. The built-in 6800mAh high-performance battery can support 15 hours of continuous operation. G30 adopts type-c charging interface which supports PD rapid charging, the battery can be full charged in 3 hours that supports full-day work. The battery core can be recharged with long life, and performance is more secure and reliable.
- IMU survey**
Built-in IMU compensator correct the 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 30%.
- smart reminder of base station attitude**
Built-in high-precision tilt attitude module which associates with receiver attitude module which associates with receiver attitude when the base station moves or falls, it can accurately distinguish and promptly remind.

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