Specification

G970|| ZX

Channels 700 channels GNSS Accuracy BDS: B1, B2, B3 GFS: L1CA, L1P, L1C, L2P, L2C, L5 GLOASS: G1,G2, P1, P2 GALLEC: E1BC, E5a. E5b QZSS: L1CA, L2C. L5, L1C SBAS: L1CA, L2C. L5, L1C SBAS: L1CA, L5 L-Band Accuracy Static H: 2.5mm±1ppm. V: 5mm±1ppm ACcuracy ATLAS H10 8cm Initialization 8s Initialization 8c Reliable	
GNSS Satellite Signals BDS: B1, B2, B3 GPS: L1CA, L1P, L1C, L2P, L2C, L5 GLOASS: G1, G2, P1, P2 GALLEO: E1BC, E5a. E5b QZSS: L1CA, L2C. L5, L1C SBAS: L1CA, L5 L-Band Accuracy Static H: 2.5mm±1ppm. V: 5mm±1ppm RTK H: 8mm±1ppm. V: 15mm±1ppm DGNSS <0.5m	
StaticH: 2.5mm±1ppm. V: 5mm±1ppmAccuracyRTKH: 8mm±1ppm, V: 15mm±1ppmAccuracyATLAS H108cmInitialization8sTime-Initialization99.9%Reliable-OSLinuxMemory8GB, support expandable MicroSDWi-Fi802.11 b/g/nBluetoothV2.1+EDR/V4.1Dual, Class2E-BubbleSupportIMU Tilt SurveyFusion positioning, 400Hz refresh rate, 2cm (@60°Tilt degree)Audiosupport TTS audio broadcastUHF radioT/Rx Internal Radio, 1W/2W adjustable, 410-470MHzRadio protocolSupport GeoTalk, SATEL, PCC-GMSK, TrimTalk, TrimMark, South, TargetNetwork4G-LTE, TE-SCDMA, CDMA(EVDO 2000), WCDMA, GSM(GPRS)ReferenceRTCM2.3, RTCM3.2, compute StationoutputsCMR,CMR+,ROXPhysicalInterfacePhysicalInterfacePowerBattery capacity7.2V, 24.5Wh(standard two batteries)Life Times	
RTKH: 8mm±1ppm. V: 15mm±1ppmDGNSS<0.5m	
DGNSS <0.5m	
Accuracy ATLAS H10 8cm Initialization 8s Time 99.9% Initialization 99.9% Reliable 99.9% Reliable 0S Linux Memory Memory 8GB. support expandable MicroSD Wi-Fi 802.11 b/g/n Bluetooth V2.1+EDR/V4.1Dual, Class2 E-Bubble Support IMU Tilt Survey Fusion positioning, 400Hz refresh rate, 2cm (@60°Tilt degree) Audio support TTS audio broadcast UHF radio T/Rx Internal Radio, 1W/2W adjustable, 410-470MHz Radio protocol Support GeoTalk, SATEL, PCC-GMSK, TrimTalk, TrimMark, South, Target Network 4G-LTE, TE-SCDMA, CDMA(EVDO 2000), WCDMA, GSM(GPRS) Reference RTCM2.3, RTCM3.2, CUR, CMR, ROX Interface 1*TNC Radio Antenna, 1*5Pin(Power & RS232), 1*7Pin (USB 81 RS232 Button 1 Power Button Indication Light 4 Indication Lights Size 0156mm×H76mm Weight 1.2kg Power Battery capacity 7.2V, 24.5Wh(standard two batteries)	
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Weight 1.2kg Power Battery capacity 7.2V, 24.5Wh(standard two batteries)	
Power Battery capacity 7.2V, 24.5Wh(standard two batteries)	
Static Survey: 15 hours, Rover RTK survey: 12h	
External power source DC 9-18V, with overvoltage protection	
Work Temperature -35°C~+65°C	
Environment Storage -55°C~+85°C Temperature	
Waterproof IP68 & dustproof	
Humidity 100% anti-condensation	

G970II-ZX

GNSS Receiver



Accuracy and reliability specifications may be affected by multipath, satellite geometry and atmospheric Conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.
 Operating time varies based on temperature. Specifications are subject to change without notice.

Tilt 60° survey

G970 II ZX Features

Since G970II launch, G970II has been recognized by the majority of users for its excellent quality and excellent performance, and has become a star product in the RTK market. Now, the G970II is newly upgraded, the G970II ZX is launched, and a new inertial navigation technology is added to support the fusion positioning.



The G970II ZX Extreme Edition is equipped with a new generation of highprecision positioning boards, 700 super channels, supporting 4-satellites full-band satellite signal reception, and fully supports the fourth-generation GNSS positioning technology.

• A new generation of Athena RTK engine to effectively improve the initialization speed and accuracy in harsh environments.

• Support "ATLAS" L-Band signal receiving, single-machine centimeter-level positioning accuracy anywhere in the world.

• Support "aRTK" technology, maintain a fixed resolution for a period of time in the case of a differential data link interruption.





Fusion Positioning

60 ° Tilt Survey High dynamic output

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400Hz

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Fusion positioning

Using fusion positioning technology, built-in high-precision IMU inertial navigation module, patented IMU inertial navigation and GNSS fusion positioning algorithm, Support 400Hz positioning data output, tilt 60 degrees positioning accuracy 2cm, can do tilt measurement, Surveying at any time.



Beyond, because I don't believe in perfection

Easy Surveying

Combined Antenna

A new generation of combined antennas, GNSS, WiFi, Bluetooth, 4G. The antenna is integrated, the system level is optimized, and the signal strength is improved Up 30%!

Dual Batteries Dual insurance

Dual battery + dual battery compartment double insurance design, unique ingenuity, battery self-contained power intelligent detection chip, remaining power, one click know!



Intelligent Voice



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Intelligent System

Based on intelligent operating system, the newly designed new generation WebUI makes RTK operation as simple as the Internet; intelligent TTS voice prompts support user DIY settings; UniCloud private cloud service, remotely control the working status, make your instrument smarter !

