



G970 II GNSS RTK Receiver



The G970II is UniStrong's new, compact antenna that combines and integrates GNSS, Wi-Fi, Bluetooth, and 4G capabilities. The durable housing is lightweight and made of pure magnesium alloy, providing enhanced electromagnetic shielding performance operation that remains stable and reliable while in use.

Both the G970II, and the handheld have built-in 4G full Netcom network modules that can be connected to mobile networks the operator chooses. The G970II comes standard with two large-capacity lithium batteries that are hot-swappable and interchangeable between the receiver and the handheld to provide you with continuous use. The unit also comes equipped with a power detection chip that provides visibility of remaining power with the click of a button.



Product Features

- Supports full-band satellite signal reception
- Athena™ RTK engine
- Supports Atlas® aRTK™ technology
- Supports Atlas GNSS Global Correction Service, enabling global single-machine centimeter-level positioning

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GNSS Performance

Channels: 394

Satellite Reception:

BeiDou B1, B2, B3

GPS L1CA, L1P, L1C, L2P, L2C, L5

GLONASS G1, G2, P1, P2

GALILEO E1BC, E5a, E5b

QZSS L1CA, L2C, L5, L1C

SBAS L1 CA, L5

L-Band (Atlas)

Precision

Static:

Horizontal Accuracy: 2.5 mm \pm 1 ppm

Vertical Accuracy: 5 mm \pm 1 ppm

RTK:

Horizontal Accuracy: 8 mm \pm 1 ppm

Vertical Accuracy: 15 mm \pm 1 ppm

DGNSS: <0.5m

Atlas Basic: 50 cm 95% (30 cm RMS)

Atlas H30: 30 cm 95% (15 cm RMS)

Atlas H10: 8 cm 95% (4 cm RMS)

System Configuration

Operating System: Linux

Built-In Storage: 8 GB, MicroSD slot storage expansion

Wi-Fi: 802.11 b/g/n

Bluetooth: V2.1+EDR/V4.1 dual mode, Class2

Electronic Bubble: Supported

Tilt Measurement: Supported

Voice: Supports TTS voice broadcast

Communications

UHF Radio: Built-in transceiver integrated radio, 1W/2W adjustable

Radio Protocol: supports GeoTalk, SATEL, PCC-GMSK, TrimTalk, TrimMark, SOUTH

Network: Full Netcom 4G, supports China Mobile/Telecom/Unicom, 2/3/4G network

Mechanical

Interface: 1x TNC radio antenna, 1x 5-pin (power + RS232), 1x 7-pin (USB + RS232)

Button: 1x power button

Indicator Light: 4x LED indicators

Size: Φ 156 mm \times H76 mm

Weight: 1.2 kg

Power

Battery Capacity: 7.2, 24.5 Wh (two pieces as standard)

Usage Time: Static: 15 h Rover: 12 h

External Power Supply: DC 9-18 V with over-voltage protection

Environmental

Working Temperature: -30°C~+65°C

Storage Temperature: -40°C~+80°C

Waterproof and Dustproof: IP67

Humidity: Resistant to 100% condensation

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