Eyr GNSS Receiver

GPS (L1C/A, L2C, L2P, L5) Signal Tracking BDS (B1I, B1C, B2a, B2b, B2I, B3I)

GLONASS (L1CA, L2CA, L2P, L3) Galileo (E1, E5a, E5b, E5 AltBoc) QZSS (L1C/A, L1S, L2C, L5)

H:2.5 mm + 0.1 ppm RMS / V:3.5 mm + 0.4 ppm RMS

Initialization time: Typically 10 min for base and 5 min for rover

H:±0.25m+1ppm RMS | V:±0.5m+1ppm RMS | SBAS:0.5m(H)

Cold start:< 45 s | Hot start:< 30 s | Signal re-acquisition:< 2 s Additional horizontal pole-tilt uncertainty typically less than

H:RTK+10 mm / minute RMS / V:RTK+20 mm / minute RMS

H:2.5 mm + 0.5 ppm RMS / V:5 mm + 0.5 ppm RMS

H:8mm + 1 ppm RMS / V:15 mm + 1 ppm RMS

H:8 mm+1ppm RMS / V:15 mm+1 ppm RMS

Initialization time: Typically <10 s Initialization reliability: Typically > 99.9%

8 mm +0.7 mm / °tilt (0° ~ 60°)

1 Hz, 5 Hz and 10 Hz

NavIC (L5) SBAS*(L1, L2, L5) PPP(B2b-PPP)

1760

Static and Fast Static

Code Differential GNSS Positioning

Real Time Kinematic (RTK)

Positioning rate Time to first Fix

Tilt Survey Performance³

Hi-Fix⁴

Communication

Network: integrated 4G modem(LTE, WCDMA, EDGE, GPRS, GSM) Bluetooth: 4.0 / 2.1+EDR, 2.4 GHz / NFC

Wi-Fi: frequency 2.4 GHz, Supports 802.11 b / g / n

Frequency: 410-470 MHz | Channel: 116 Transmitting power: 0.5 W / 1 W / 2 W adjustable Supports multi-communication protocols: HI-TARGET,

TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL, etc. Working Range: Typically 3~5km, optimal 8~15km

PHYSICAL

Internal 7.2 V / 6900 mAh lithium-ion rechargeable battery. Internal battery⁵

RTK Rover (UHF/Cellular) for 15 hours.

Power consumption: 4.2W | Dimensions (W×H): 130mm×79mm **External power** Charging:using standard smartphone chargers or external

> power banks.(Support 5V 2.8A Type-C USB external charging) Weight:≤0.97 kg (includes battery) Data storage:8GB ROM internal storage

Control Panel

Satellite, Signal, Power | Physical button: 1 **LED Lamp**

2MP&5MP **Pixel**

Support real scene stakeout, image measurement, working distance 2~15m

Environment

IP Rating MIL-STD-810G, Shock and vibration

Designed to survive a 2 m natural fall onto concrete

IP68

100%, condensing Humidity Operation temperature -40°C ~+75°C -55°C ~+85°C Storage temperature

Image Accuracy

Image Stakeout Typically 1cm

2cm~4cm(range 2~15 m) **Image Measurement**

USB type C interface; SMA interface; Nano SIM card slot

Data Formats

Output rate 1Hz-20Hz. Static data format GNS, Rinex

VRS, FKP, MAC; supports NTRIP protocol Network model

Real Time Kinematic (RTK) RTCM 3.x NMEA-0183 Navigation outputs ASCII

*Description and Specifications are subject to change without notice.

[1] SBAS service can be provided by firmware upgrade, PPP service is not available in all regions, check with your local sales representative for more information.

[2] The measurement accuracy, precision, reliability and initialization time depend on various factors, including tilt angle, number of satellites, geometric distribution, observation time, atmospheric conditions and multi-path validation, etc. The data are derived under normal conditions.

[3] Irregular operations such as rapid rotation and high-intensity vibration may affect the inertial navigation accuracy.

[4] Accuracies are dependent on GNSS satellite availability. Hi-Fix Positioning ends after 5 minutes without differential data. Hi-Fix is not available in all regions, check with your local sales representative for more information.

representative for more information. [5]The battery operating time is related to the operating environment, operating temperature and battery life.





No. of Channels

POSITIONING PERFORMANCE[®] High-precision static GNSS Surveying

Post Processing Kinematic

(PPK / Stop & Go)

Initialization reliability: Typically>99.9% H: 10cm / V: 20cm

B2b-PPP

COMMUNICATION

Internal UHF Radio

SATLAB

GEOSOLUTION I GÖTEBORG AB Stora Åvägen 21, 436 34 ASKIM, Sweden

Regional Offices: Budapest, Hungary

Ankara, Turkey Dubai, UAE New Delhi, India Scottsdale, USA Tokyo, Japan Hong Kong, China

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