



GNSS Receiver

Renowned partners

Experience increased productivity and reduced failure rates thanks to the power of Hexagon's cutting-edge technology and the partnership with high-quality brands like SATEL and NovAtel.

Open & flexible configuration

The Zenith Manager, a stand-alone application available for Windows® and Android™ operating systems, enables you to configure your receiver without using the field controller.

Affordable price

Providing top-performing technology at an affordable price, the Zenith16 GNSS receiver convinces with a remarkable performance ratio.

Seamlessly integrated into your workflow

X-PAD Ultimate's intuitive interface allows everyone to easily perform surveying and construction tasks. X-PAD Office Fusion allows direct integration and management of different types of data in one software.



By combining GeoMax field controllers and X-PAD software, the Zenith16 receiver reaches its full potential.

■ Speed ■ Flexibility ■ Ease ■ Upgraded functionality ■ Efficiency

Receiver specifications

| | |
|---------------------------|--|
| Q-Lock Pro™ functionality | Lowest noise and advanced multipath mitigation for highest reliability |
| Reliability | 99.95% |
| Measurement Engine | NovAtel OEM7, 181 channels, dual-frequency / multi-constellation |
| GPS tracking | L1, L2, L2C |
| GLONASS tracking | L1, L2, L2C |
| BeiDou tracking | B1, B2 (opt) |
| Galileo tracking | E1, E5b (opt) |
| QZSS tracking | L1, L2C (opt) |
| Positioning rate | 5 Hz |
| SBAS | EGNOS, WAAS, MSAS, GAGAN |

Receiver accuracy (rms)*

| | | |
|---------------|----|------------------|
| RTK | Hz | 10 mm + 1 ppm |
| | V | 20 mm + 1 ppm |
| Network RTK | Hz | 10 mm + 0.5 ppm |
| | V | 20 mm + 0.5 ppm |
| Static | Hz | 5 mm + 0.5 ppm |
| | V | 10 mm + 0.5 ppm |
| Static - long | Hz | 3 mm + 0.1 ppm |
| | V | 3.5 mm + 0.4 ppm |

Interfaces

| | |
|-----------------------|--|
| Keyboard | On/off and function key |
| LED status indicators | Position, battery, Bluetooth®, RTK receive, RTK transmit, data storage |
| LED mode indicators | Rover, base, static |
| Data recording | Removable microSD card |

* Measurement precision, accuracy, reliability and time for initialization are dependent upon various factors including number of satellites, observation time, atmospheric conditions, multipath etc. Figures quoted assume normal to favorable conditions. A full BeiDou and Galileo constellation will further increase measurement performance and accuracy.

** Depending on device configuration; without battery

Communication

| | |
|--------------------|---|
| UHF radio module | SATEL, 500mW, 1000 mW transceiver, 403–473 MHz; (opt) |
| Bluetooth® | Device class II QR-iConnect functionality |
| TNC connector | High sensitivity, UHF antenna |
| Communication port | USB, serial & power |

Physical specifications

| | |
|--------------------------|---|
| Dimensions | Height 95 mm, ø 198 mm |
| Weight | 1.09 - 1.13 kg ** |
| Operating temp. | –40°C to 65°C |
| Environmental protection | IP68 / IP66 / MIL |
| Humidity | 100%, condensing |
| Vibration | Mechanical stress resistant according to ISO 9022-36-05 |
| Shock | Withstands 2 m drop onto hard surface |

Power supply

| | |
|------------------|-----------------------------------|
| Internal battery | Removable, Li-Ion 2.6 Ah / 7.4 V |
| Operating time | 9 h in static / 6 h in rover mode |
| External power | 10.5 V to 28 V, LEMO® plug |



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