GEOMAX

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.

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X-PAD

- Stable Bluetooth connection
- SIM card on the tablet
- Connecting QR-code
- X-PAD on Android
- IP68

In combination with GeoMax field controllers and the 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	99.99%
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

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

* Measurement precision, accuracy, reliability and time for initialisation are dependent upon various factors including number of satellites, observation time, atmospheric conditions, multipath etc. Figures quoted assume normal to favourable conditions. A full BeiDou and Galileo constellation will further increase measurement performance and accuracy.
** Depending on device configuration; without battery

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Learn more at:
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