GEOMAX

Works when you do

Zenith16

GNSS Receiver



Renowned Partners

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

Open & flexible configuration

Configure the Zenith16 with X-PAD Ultimate software or the Zenith Manager, a stand-alone application available for Windows® and Android™ operating systems, freeing you from using a field controller.

Best value for money

Top performing technology and a remarkable price-performance ratio meet in the Zenith16 GNSS receiver, making it a strong investment.

Scan to find out more on our
Zenith16 product page

geomax-positioning.com

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Zenith16

Top-performing technology, smart investment price

The Zenith16 GNSS smart antenna provides fast and accurate measurements, enabling you to efficiently complete high-quality projects.

Experience the Zenith16's full potential when combined with X-PAD software and GeoMax field controllers. The X-PAD Software Suite enables accurate data capture in the field, quick and secure data transfer to the office, single platform storage and management, GNSS static data post-processing, and more.

VARIANTS

GeoMax Zenith16
GeoMax Zenith16 UHF

RECEIVER SPECIFICATIONS

Measurement Engine	NovAtel OEM719, 555 channels, multi-frequency, multi-constellation
GPS tracking	L1 C/A, L2P, L2C, L5
GLONASS tracking	L1 C/A, L2P, L2C, L3
BeiDou tracking	B1, B2, B3
Galileo tracking	E1, E5a, E5b, AltBOC, E6
SBAS	EGNOS, WAAS, MSAS, GAGAN
QZSS tracking	L1, L2, L5, L6*
NavIC	L5*
Precise Point Positioning (PPP)	TerraStar C Pro, L-Band (opt)
Positioning rate	5 Hz, 20 Hz (opt)
Time for Initialisation	Typically 4 s

COMMUNICATION

RTK data protocols	CMR, CMR+, RTCM 2.2, 2.3, 3.0, 3.1, 3.2 MSM
NMEA Output	NMEA 0183
UHF radio module	Satel TR4+, transceiver Transmission power 0.5 and 1.0 W; Frequency range 403 to 473 MHz (opt)
Bluetooth®	Device class II QR-iConnect functionality
TNC connector	High sensitivity, UHF antenna
Communication port	USB, serial & power

INTERFACES

Keyboard	On/off button, Function button
LED status indicators	Position, RTK, Power, Storage, Bluetooth®
LED mode indicators	Rover, Base, Static
Data recording	MicroSD card

RECEIVER ACCURACY (rms) **

RTK	Hz: 8 mm + 1 ppm V: 15 mm + 1 ppm
Network RTK	Hz: 8 mm + 0.5 ppm V: 15 mm + 0.5 ppm
Static	Hz: 3 mm + 0.5 ppm V: 5 mm + 0.5 ppm
Static long	Hz: 3 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm
TerraStar C Pro PPP	Hz: < 2.5 cm V: < 5 cm

POWER SUPPLY

Internal battery	Li-Ion 7.4 V / 2.6 Ah
Operating time	7 h in static / 6 h in rover mode
External power	10.5 V to 28 V DC with ZDC225 cable

PHYSICAL SPECIFICATIONS

Dimensions	Height 95 mm, ø 198 mm
Weight	1.14 to 1.18 kg without batteries ***
Operating temp.	–40°C to 65°C
Environmental protection	IP68 (IEC 60529) Withstands powerful water jets and temporary immersion under water MIL-STD-810H 512.6 Procedure I MIL-STD-810H 510.7 Procedure I Fully dust tight MIL-STD-810G 1 510.6
Humidity	100% condensing
Vibration	Mechanical stress resistant according to ISO 9022-36-05
Shock	Withstands 2 m (6.6 ft) pole topple over onto hard surface

* QZSS L6 and NavIC are foreseen to be provided through future firmware upgrade.
**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.
*** Depending on device configuration; w/o battery

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