



Zenith GNSS family

GeoMax has a complete GNSS portfolio to fulfil the needs of all users. Ensure ultimate reliability with GeoMax GNSS systems even in challenging environments. Providing true cost-effectiveness these systems are equipped

with the latest GNSS technology in the field helping you increase your productivity and taking your performance to a new level.

GeoMax GNSS Systems



Zenith40 - Latest technology for highest efficiency

Take advantage of NovAtel's latest fully-featured OEM 719 measurement engine. It enables you to receive multi-frequency signals from all existing satellite systems worldwide. Struggles with canopy - like working under trees, or inaccurate results because of multipath signals are significantly improved due to the enhanced GeoMax Q-Lock Pro RTK which also reduces the time-to-fix.

Also on board of the Zenith40, Hexagon's TerraStar Precise Point Positioning (PPP) service that provides C-Pro correction data at centimetre level quality all around the globe. This service significantly enhances your productivity, as it eliminates the need of a network connection and reference from a data base station.



Zenith35 Pro Series - Erasing boundaries and raising performance

The unique Zenith35 Pro Tilt&Go functionality allows you to measure points where a vertical placement of the pole is not possible such as house corners.

TAG Single - when the highest efficiency is needed. Measure points with pole tilted up to 15° with only one press of a button.

TAG Dual - when working under difficult situations. Independent from discrepancies caused by metal objects (or those generating magnetic fields). With pole tilt up to 30°.



Zenith16 - Gets the job done

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

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.



X-PAD

Whether in the field or in the office, GeoMax X-PAD is the software making your work most efficient. GeoMax X-PAD field software is available in two tailored versions: one for surveyors and one for construction professionals supporting Windows and Android operating systems. Due to close contact with key-users all around the world, X-PAD Ultimate is kept up-to-date continuously and convinces with its perfect balance between clear structure, straight forward workflows and high

functionality. The GeoMax software offering is completed by X-PAD Fusion, a desktop software integrating geospatial data from TPS, GNSS, Scanners and other sensors in a single environment. Different to other software solutions in the market X-PAD Fusion is one software solution that manages measurements, coordinates, drawings, point clouds and other types of data in ONE platform in a simple and intuitive way.



In combination with GeoMax field controllers and the X-PAD software, the GeoMax receivers reach their full potential.

GeoMax GNSS Antennas - Overview

	Zenith16	Zenith35 Pro	Zenith35 Pro TAG	Zenith40
NOVATEL MEASUREMENT ENGINE				
RTK technology	Q-Lock Pro™	NovAtel Advance®		Q-Lock Pro™
Channels	181	555		555
GPS tracking	L1, L2, L2C	L1, L2, L2C, L5		L1, L2, L2C, L5
GLONASS tracking	L1, L2	L1, L2, L3*		L1, L2, L3*
BeiDou tracking	B1, B2 (opt)	B1, B2, B3*		B1, B2, B3* (opt)
Galileo tracking	E1, E5b (opt)	E1, E5a, E5b, AltBOC, E6*		E1, E5a, E5b, AltBOC, E6* (opt)
QZSS tracking	L1, L2C (opt)	L1, L2C, L5, L6*		L1, L2C, L5, L6* (opt)
NavIC	-	L5*		L5*
Positioning rate (Hz)	5	5	5, 20 (opt)	5, 20 (opt)
SBAS	EGNOS, WASS, MSAS, GAGAN	EGNOS, WAAS, MSAS, GAGAN		EGNOS, WAAS, MSAS, GAGAN
Precise Point Positioning (PPP)	-	-		Yes
TILT & GO				
Single / Dual Mode	-	-	Yes	-
ACCURACY (RMS)***				
Static H/V (mm + ppm)	5 + 0.5 / 10 + 0.5	3 + 0.5 / 5 + 0.5		3 + 0.5 / 5 + 0.5
RTK H/V (mm + ppm)	10 + 1 / 20 + 1	8 + 1 / 15 + 1		8 + 1 / 15 + 1
Static long H/V (mm + ppm)	3 + 0.1 / 3.5 + 0.4	3 + 0.1 / 3.5 + 0.4		3 + 0.1 / 3.5 + 0.4
COMMUNICATION				
GSM/GPRS module	-	Yes		Yes
UHF radio module	SATEL (opt)	SATEL		SATEL (opt)
Bluetooth®	Yes	Yes		Yes
WiFi	-	Yes		-
Communication port	USB, serial and power	USB, serial and power		USB, serial and power
QR-iConnect	Yes	-		Yes
Zenith Manager	Yes	-		Yes
INTERFACES				
Data recording	Removable microSD card	Removable microSD card and 8 GB internal memory	Removable microSD card	Removable microSD card
GSM / TCP / IP	-	Removable SIM card		Removable SIM card
PicPoint / X-Pole support	Yes	Yes		Yes
POWER SUPPLY				
External power / Internal battery	Lemo® plug / Removable, Li-Ion 2.6 Ah	Lemo® plug / Removable, Li-Ion 3.4 Ah		Lemo® plug, Removable, Li-Ion 2.6 Ah
Smart battery	-	Yes		-
Operating time (static/rover)	9 h / 6 h	8h / 6h		9h / 6h
PHYSICAL SPECIFICATIONS				
Dimensions / Weight **	Height 95 mm, ø 198 mm / 1.09 kg	Height 131 mm, ø 161 mm / 1.17 kg		Height 95 mm, ø 198 mm / 1.14 kg
Operating temperature	-40°C to 65°C	-40°C to 65°C		-40°C to 65°C
Protection class / Humidity	IP68, 100%, condensing	IP68, 100%, condensing		IP68, 100%, condensing
Vibration	Mechanical stress resistant according to ISO 9022-36-05	ASAE EP455 Section 5.15.1 Random, MIL-STD-810G, method 514.6E-I		Mechanical stress resistant according to ISO 9022-36-05
Shock	Withstands 2 m drop onto hard surface	Withstands 2 m drop onto hard surface		Withstands 2 m drop onto hard surface
WARRANTY				
Standard Warranty	1 year	1 year		1 year
Extendable warranty	Yes	Yes		Yes



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* Glonass L3, BeiDou B3, Galileo E6, QZSS L6 and NavIC L5 are foreseen to be provided through future firmware upgrade.

** Depending on device configuration; w/o battery

*** Measurement accuracy and reliability are dependent on various factors including satellite geometry, obstructions, observation time, ionospheric conditions, multipath, etc. Figures quoted assume normal to favourable conditions.

GeoMax reserves the right to change, without notice, product offerings or specifications.



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