



## Zenith GNSS family

GeoMax has a complete GNSS portfolio to fulfill 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



## Zenith35 Pro Series - Erasing boundaries and raising performance

Zenith35 Pro is equipped with the latest NovAtel measurement engine, providing unmatched functionality. With its 555 channels multi constellation and frequency support it is ready for all today's and tomorrow's GNSS systems. 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°.



## Zenith25 Pro Series - Ultimate performance, even in extreme environments

Your professional choice now and tomorrow. Equipped with the most advanced GNSS receiver technology, Zenith25 Pro series supports GPS, GLONASS, Galileo, BeiDou, and SBAS systems. Suitable for any application, the Zenith25 Pro series additionally considers new GNSS constellations like BeiDou and Galileo today and is prepared for even more signals tomorrow.



## Zenith15 Series - One antenna for all applications

This robust entry level GNSS receiver offers you the flexibility of choosing between UHF and GSM depending on the situation.

The Zenith15 has open connectivity, you can choose your preferred field software, not being limited to one.





## PicPoint, your contactless GNSS system

With the unique GeoMax "PicPoint" you can easily measure points directly in the field that cannot be measured with conventional GNSS measurements such as on façade points or objects with restricted access possibility.

"PicPoint" combines GNSS measurements with images, taken from the PicPoint camera attached to the pole. The innovative X-PAD Field Software running on an Android tablet uses photogrammetric principles to enable a point determination, CAD drawings and various COGO

calculations such as Area and Tie Distance. Of course measured points are visualised in the image allowing a visual completeness check of your survey directly on site. And if you should ever have missed to measure some points, this can be done easily in the office.



### X-Pole - when GNSS meets TPS

By combining the advantages of both systems, the new solution significantly improves performance and flexibility on the jobsite.

The seamless integration of X-Pole into the field software allows a toggle between both measurement modes. Simply decide with the press of one button if you want to change from TPS to GNSS mode, such as when some points cannot be measured with TPS due to limited prism visibility. Once those points are measured, switch back to TPS mode. This enhances the efficiency of the system since it eliminates the need for cumbersome and time consuming station setups.



# GeoMax GNSS Antennas - Overview

	Zenith15	Zenith25 Pro	Zenith25Pro4	Zenith35 Pro	Zenith35 Pro TAG
<b>NOVATEL MEASUREMENT ENGINE</b>					
RTK technology	GeoMax Q-Lock (TM)			NovAtel AdVance®	
Channels	120			555	
GPS tracking	L1,L2,L2C			L1, L2, L2C, L5	
GLONASS tracking	L1,L2			L1, L2, L3*	
BeiDou tracking	-	B1 (opt)	B1,B2	B1, B2, B3**	
Galileo tracking	-	E1 (opt)	E1, E5b (opt)	E1, E5a,E5b, AltBOC, E6**	
Positioning rate	5Hz	5 Hz, 20 Hz (opt)	5Hz	20 Hz	
SBAS	EGNOS, WAAS, MSAS, GAGAN			EGNOS, WAAS, MSAS, GAGAN, QZSS***	
<b>TILT &amp; GO</b>					
Single / Dual Mode	-			-	Yes
<b>ACCURACY**</b>					
Static H/V (mm + ppm)	5 + 0.5 / 10 + 0.5	3 + 0.5 / 5 + 0.5		3 + 0.5 / 5 + 0.5	
Kinematic 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	
<b>COMMUNICATION</b>					
GSM/GPRS module	3.75 G			3.75 G	
UHF radio module	500 mW, 1000 mW; selectable			500 mW, 1000 mW; selectable"	
	Opt.	Opt.	Included	Included	
Bluetooth®	Yes			Yes	
WiFi	-			Yes	
Web User Interface	-			Yes	
Remote Configuration via DynDNS	-			Yes	
Communication port	USB, serial and power			USB, serial and power	
<b>INTERFACES</b>					
Data recording	removable microSD card			microSD card and 4 GB removable microSD internal memory	
GSM / TCP / IP	Removable SIM card			Removable SIM card	
PicPoint / X-Pole support	Yes			Yes	
<b>POWER SUPPLY</b>					
External power / Internal battery	Lemo (R) plug / Removable Li-Ion 2.6 Ah			Lemo (R) plug / Removable, Li-Ion 3.4 Ah	
Smart battery	-			Yes	
Operating time (static/rover)	7.5 h / 5 h	9 h / 6 h	9 h / 6 h	8h / 6h	
<b>PHYSICAL SPECIFICATIONS</b>					
Dimensions / Weight	Height 95 mm, ø 198 mm / 1.07 kg without battery			Height 131 mm, ø 161 mm / 1.17 kg without battery	
Operating temperature	-40°C to 65°C			-40°C to 65°C	
Protection class / Humidity	sIP68, 100%, condensing			IP68, 100%, condensing	
Vibration	Mechanical stress resistant according ISO 9022-36-05			ASAE EP455 Section 5.15.1 Random, MIL-STD-810G, method 514.6E-I	
Shock	Withstands 2m topple over onto hard surface			Withstands 2 m drop onto hard surface	
<b>WARRANTY</b>					
Standard Warranty	1 year			1 year	
Extendable warranty	-	Yes	Yes	Yes	



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Glonass L3 will be provided through future firmware upgrade. Believe to comply. Subject to ICD description availability. \* Support of QZSS is incorporated and will be provided through future firmware upgrade when QZSS will be operational. \*\*\* 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.



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