

GeoMax GPS/GNSS Zenith30 Series



ZENITH30

Works when you do!

At GeoMax we understand that you work in demanding environments and require excellent price-to-performance without compromising quality, that's why we build products that "Work when you do!".

The GeoMax Zenith30 introduces a GNSS system to surveyors that provides true price-to-performance and takes surveying productivity to the next level!

Zenith30 Mobile PC

The Zenith30 is a rugged tablet PC with wide ranging functionality. As top performance starts with great power, the Zenith30 features an impressive 1.6GHz processor and runs the Microsoft Windows 7 Ultimate operating system. That means you will be able to work with all PC applications in the office and out in the field.

When a large display is needed to work with detailed maps or other visuals, the 7" screen of the Zenith30 makes it a great solution. And its tough enough to work in the most challenging environments.



Communication

The Zenith30 Mobile PC integrates modern wireless communication technologies. The 3.5G modem provides high-speed data transfer and is globally compatible with GSM, GPRS, EDGE and UMTS network providers. Connection is also possible to a wireless local area network. Bluetooth® wireless technology allows cable free communication with the GNSS antenna, radio modem and external devices.



Zenith30



ZGP800A GNSS Antenna

This multi-functional antenna can be implemented for a complete range of GNSS applications. With a pole or tripod setup, use the ZGP800A for accurate RTK positions, providing raw data for postprocessing or as a reference station.

The ZGP800A is extremely rugged, withstanding extreme temperatures and IP66 protection. No matter how demanding the conditions, you can be sure that your ZGP800A "Works when you do!".



Quality

Equipped with state-of-the-art NovAtel GNSS technology the ZGP800A provides maximum performance. With built-in Q-Lock™ technology, all satellites are tracked with the highest possible signal strength and regular independent checks are conducted to ensure that you can work in all environments, no matter how challenging.



Works when you do

Zenith30 Series Technical Data



ZGP800A GNSS Antenna

Performance

GeoMax Q-Lock technology
72 channels: L1 + L2/L2C GPS
L1 + L2 GLONASS
SBAS
20Hz Positioning rate
8 second RTK initialization time (typical)

Interface

Satellite tracking, Bluetooth & Power indicators
Bluetooth 2.0 Class 1
Hirose combined USB & Power port

Accuracy*

| | |
|-----------------------------|-----------------|
| Post processing horizontal: | 3 mm + 0.5 ppm |
| Post processing vertical: | 5 mm + 0.5 ppm |
| RTK static horizontal: | 5 mm + 0.5 ppm |
| RTK static vertical: | 10 mm + 0.5 ppm |
| RTK moving horizontal: | 10 mm + 1 ppm |
| RTK moving vertical: | 20 mm + 1 ppm |

Power supply

12V and 24V DC external power input
Removable 2.2Ah / 7.4V Li-Ion battery
RTK operating time over 5 hours

Physical

Weight 1.1 kg with internal battery
Operating temperature -30°C to +65°C
Storage temperature -40°C to +80°C
Protection from dust and water IP66

* Measurement accuracy is dependant on various factors.
Figures quoted are from normal to favourable conditions.

Zenith 30 Mobile PC

Performance

Super rugged mobile PC
Intel Ultra low power 1.6 GHz processor
2GB DDR RAM
64GB SSD hard drive
Microsoft Windows 7 operating system
Sunlight readable 7" touch screen

Interface

10 keys for Power, Menu, Navigation & programmable hot keys, On-screen QWERTY keyboard
2x USB, RS232, LAN & Power ports

Communications

Wireless LAN 802.11
3.5G GSM/GPRS/UMTS/CDMA module
Bluetooth 2.0 Class 1
Integrated GPS receiver
Integrated microphone and speaker
2 megapixel camera with flash

Power supply

12V DC external power input
Two removable 5.2Ah / 7.4V Li-Ion batteries
RTK operating time over 12 hours

Physical

Weight 1.3 kg with batteries
Operating temperature -23°C to +60°C
Storage temperature -40°C to +70°C
Protection from dust and water IP65



About us

GeoMax is an internationally active company developing, manufacturing and distributing quality construction and surveying instruments. We provide a comprehensive portfolio of integrated instruments for the construction, surveying and mapping industries. Both occasional and professional users are addressed with GeoMax's easy-to-use, yet highly productive, range of Total Stations, GPS, Lasers, Optical and digital levels.

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