GNSS Receiver
Zenith25 Series

Extremely Rugged
- IP68 Dust- and Waterproof
- 2 m Pole Topple over
- Vibration Resistant

All-in-one Communication
- Quad-Band GSM/GPRS
- UHF Radio
- Bluetooth®

Powerful Handheld
- Inbuilt Camera (3 M Pixel)
- Compass & Altimeter
- 3G Mobile Communication

ZENITH25

PART OF HEXAGON

GEOMAX

Zenith25 Series

Equipped with state-of-the-art GNSS receiver technology, Zenith25 provides ultimate performance. The reliable and robust GNSS system that "works when you do" – even in extreme environments.

The Q-Lock™ technology tracks all satellites with the highest available signal strength and performs regular independent checks to ensure that you can work even in challenging environments such as urban canyons or under heavy foliage.

This all combined in a system robust enough to withstand a 2 m topple over and a complete submersion under water.

Receiver specifications

Q-Lock™ technology	High fix availability and reliability
Channels	120, dual frequency
GPS tracking	L1, L2, L2C
GLONASS tracking	L1, L2
Galileo tracking	*
BeiDou tracking	**
Positioning rate	20Hz, 5Hz
Antenna phase centre	± 2 mm
Warm/cold start	10 s / 43 s

Receiver accuracy***

Static horizontal	5 mm ± 0.5 ppm (rms)
Static vertical	10 mm ± 0.5 ppm (rms)
Static long horizontal	3 mm ± 0.1 ppm (rms)
Static long vertical	3.5 mm ± 0.4 ppm (rms)
Kinematic horizontal	10 mm ± 1 ppm (rms)
Kinematic vertical	20 mm ± 1 ppm (rms)

Interfaces

Keyboard	On/Off and function keys
LED status indicators	Position, battery, Bluetooth®, RTK receive, RTK transmit, Storage Card
LED mode indicators	Rover, base, static
Data recording	Removable microSD card (8 GB)
GSM/TCP/IP	Removable SIM card

Communication

GSM/GPRS module	800, 900, 1800, 1900 MHz internal antenna
UHF radio module	1000 mW transceiver, 406–480 MHz
Bluetooth®	Device class II
TNC connector	UHF antenna
Communication port	USB, serial & power

Power supply

Internal battery	Removable 2.2 Ah / 7.4 V
Operating time	8 h in static / 5 h in rover mode
External power	9 V to 18 V DC

Physical specifications

Dimensions	Height 95 mm, ø 198 mm
Weight	1.2 kg incl. battery & UHF radio
Operating temp.	–30°C to 60°C
Protection class	IP68 dust- and waterproof
Humidity	100%, condensing
Vibration	Mechanical stress resistant according ISO 9022-36-05
Shock	Withstands 2 m pole topple over onto hard surface

* The optional Galileo tracking will be made available once there are sufficient satellites.
** The hardware is prepared to track BeiDou. The optional BeiDou tracking will soon be made available.
*** Measurement accuracy and reliability are dependant on various factors including satellite, geometry, obstructions, observation time, ionospheric conditions, multipath, etc. Figures quoted assume normal to favourable conditions.

Works when you do

GEOMAX

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