# GNSS Receiver
## Zenith10 & Zenith20 Series




**Complete**
- 60 Satellites Tracked Simultaneously
- True GNSS: GPS, Glonass, Galileo, BeiDou
- NovAtel AdVance®



**Compact**
- Integrated UHF Radio
- Integrated GSM/GPRS Module
- Extra Large Internal Memory



**Solid**
- IP67 Dust & Waterproof
- Rugged Design
- Professional

ZENITH10 & 20

PART OF HEXAGON

GEOMAX

# Zenith10 & Zenith20 Series

Using NovAtel AdVance® satellite receiver technology, the Zenith10/20 delivers maximum performance, ensuring that GeoMax GNSS "works when you do".


Zenith10/20 receivers are future proofed, benefitting from world class NovAtel AdVance® technology that supports GPS, Glonass, Galileo and BeiDou GNSS systems.

With a compact design that incorporates a GSM modem and a UHF radio in a rugged, dust and waterproof unit, the Zenith10/20 is built to last and to work when you do.

## Receiver specifications

| | |
|---|---|
| AdVance® technology | High fix availability + reliability |
| Zenith20 | 60 satellites tracked simultaneously, 120 channels (GPS/GLONASS/Galileo/BeiDou) |
| Zenith10 | 36 satellites tracked simultaneously, 72 channels (GPS/GLONASS) |
| GPS tracking | L1, L2, L2C |
| GLONASS tracking | L1, L2 |
| Galileo tracking | * |
| BeiDou tracking | B1, B2 |
| Positioning rate | 20Hz, 5Hz |

## Receiver accuracy**

| | |
|---|---|
| Static horizontal | 5 mm ± 0.5 ppm (rms) |
| Static vertical | 10 mm ± 0.5 ppm (rms) |
| Kinematic horizontal | 10 mm ± 1 ppm (rms) |
| Kinematic vertical | 20 mm ± 1 ppm (rms) |

## Interfaces

| | |
|---|---|
| Keyboard | On/Off and function key |
| LED status indicators | Position, battery, Bluetooth®, RTK receive, GSM receive, satellites tracked |
| LED mode indicators | Rover, base, static |
| Data recording | MicroSD card, int. mem. 256 MB |
| GSM/TCP/IP | Removable SIM card |

## Communication

| | |
|---|---|
| GSM/GPRS module | 800, 900, 1800, 1900 MHz<br>User exchangable sim card |
| UHF radio module | 1000 mW transceiver, 403 – 473 MHz |
| Bluetooth® | Device class II |
| TNC connector | UHF antenna, GSM antenna |
| Communication ports | USB, serial & power |

## Power supply

| | |
|---|---|
| Internal battery | Removable 2.5 Ah / 7.4 V |
| Operating time | 6 h in static / 4.5 h in rover mode |
| External power | 9 V to 18 V DC |

## Physical specifications

| | |
|---|---|
| Dimensions | Height 94 mm, ø 188 mm |
| Weight | 1.2 kg incl. battery & UHF radio |
| Operating temp. | – 30°C to 60°C |
| Protection class | IP67 dust and waterproof |
| Humidity | 100%, condensing |
| Shock | Withstands 2 m drop onto hard surface |

* The optional Galileo tracking will be made available once there are sufficient satellites.
** 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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Works when you do