GEOMAX

Works when you do

# Zenith60 Pro

## GNSS Receiver



## Optimised performance

- New powerful RTK rover provides high quality data.
- Calibration-free tilt compensation increases measurement speed and accuracy.
- Electromagnetic resistance.

## Reliable even in challenging conditions

- Performs reliably even under dense canopy.
- Multi-constellation and multi-frequency support continuous, accurate coverage.
- Robust and durable (IP68).

## Boosted digital dataflows

- Comprehensive solution, fully integrated into the GeoMax ecosystem.
- Streamlined connection with X-PAD field software, total stations, and field controllers.
- Free field software updates for up to date operation.

Scan to find out more on our **Zenith60 Pro product page**

**geomax-positioning.com**

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# Zenith60 Pro

## Redefining Accuracy and Reliabilty

Finish jobs on time and with confidence using the Zenith60 Pro GNSS smart antenna, enabling accurate, reliable, and hassle free measurements. Whether working under dense canopy, in urban canyons, or on construction sites, this high-performing RTK rover provides reliable data in challenging conditions.

Integrated into the world of GeoMax X-PAD software keeps you covered with intuitive workflows and easy data exchange from measuring to processing to help you achieve maximum results in minimum time.

| VARIANTS | 4G LTE | UHF | TILT COMPENSATION |
|---|---|---|---|
| GeoMax Zenith60 Pro LTE-IMU | ■ | - | ■ |
| GeoMax Zenith60 Pro LTE-UHF-IMU | ■ | ■ | ■ |

| RECEIVER SPECIFICATIONS | |
|---|---|
| Measurement Engine | 800+ channels, multi-frequency, multi-constellation |
| GPS tracking | L1 C/A, L1P, L1C, L2C, L2P, L5 |
| GLONASS tracking | L1 C/A, L1P, L2 C/A, L2P, L3 |
| BeiDou tracking | B1I, B1C, B2I, B2a, B2b, B3I, ACEBOC |
| Galileo tracking | E1, E5a, E5b, E6, AltBOC, |
| QZSS tracking | L1 C/A, L1C, L2C, L5, L6 |
| NavIC | L5 |
| SBAS (EGNOS, WAAS, MSAS, GAGAN) | L1, L5 |
| Positioning rate | 20 Hz |
| Time for Initialisation | Typically 4s |

| QUALITY MODE | |
|---|---|
| RTK modes | Selectable; Surefix, Standard |
| Tilt Compensation | Calibration-free, Resistant to magnetic interferences |

| COMMUNICATION | |
|---|---|
| 4G LTE module | QUECTEL EG25-G<br>LTE FDD, LTE TDD, UMTS, GSM |
| RTK data protocols | RTCM 2.1, 2.3, 3.0, 3.1, 3.2, 3.3, 3.4, CMR, CMR+ |
| NMEA Output | NMEA v3.1, NMEA v4.1 |
| UHF radio module | SATEL TR4+, 500 mW, 1000 mW transceiver, 403–473 MHz |
| Bluetooth® | 2.1 +EDR, V5.0<br>QR-iConnect functionality |
| WLAN | 802.11 b/g/n Hotspot / client mode |
| TNC connector | UHF antenna |
| Communication port | USB, serial & power |

| RECEIVER ACCURACY & PERFORMANCE * | |
|---|---|
| RTK | Hz: 8 mm + 1 ppm (rms)<br>V: 15 mm + 1 ppm (rms) |
| Network RTK | Hz: 8 mm + 0.5 ppm (rms)<br>V: 15 mm + 0.5 ppm (rms) |
| Static | Hz: 3 mm + 0.5 ppm (rms)<br>V: 5 mm + 0.5 ppm (rms) |
| Static long | Hz: 3 mm + 0.1 ppm (rms)<br>V: 3.5 mm + 0.4 ppm (rms) |
| Tilt compensated real-time kinematic | Additional Hz uncertainty<br>2 cm up to 30° tilt |

| INTERFACES | |
|---|---|
| Keyboard | On/Off button |
| LED status indicators | Position, RTK, Power, Bluetooth® |
| Data recording | Dual; microSD card and 8 GB internal memory |
| LTE/TCP/IP | Removable SIM card |

| POWER SUPPLY | |
|---|---|
| Two internal batteries | Hot-swappable, Li-Ion 3.4 Ah / 7.2 V |
| Operating time | 12.5 h in static / 11 h in rover mode |
| External power | 9 V to 28 V, LEMO® plug |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Dimensions | Height 75 mm, ø 166.8 mm |
| Weight | 1.14 kg without batteries |
| Operating temp. | –40°C to 65°C |
| Environmental protection | IP68 (IEC 60529)<br>Withstands powerful jets and temp. immersion under water MIL-STD-810G 1 506.6 & 1 512.6<br>Fully dust tight<br>MIL-STD-810G 1 510.6 |
| Humidity | MIL-STD-810H 1 507.6 |
| Vibration | Mechanical stress resistant according to ISO 9022-36-05 |
| Shock | Withstands 2 m drop onto hard surface |

* Measurement accuracy and reliability are dependent on various factors including satellite geometry, obstructions, observation time, ionospheric conditions, multipath, etc.

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