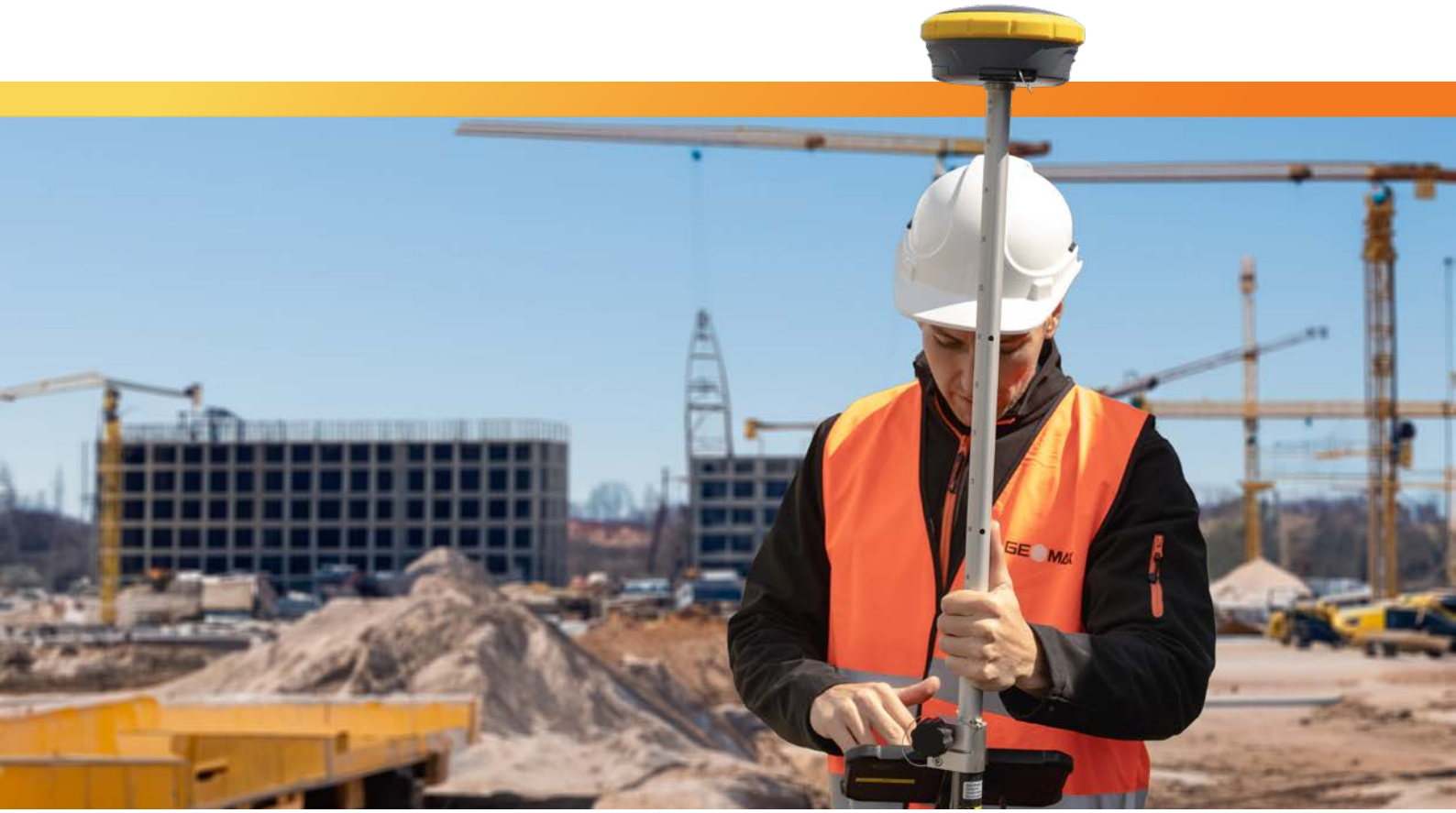
Works when you do

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

Zenith60 Pro

Redefining Accuracy and Reliability

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 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 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) V: 15 mm + 1 ppm (rms)
Network RTK	Hz: 8 mm + 0.5 ppm (rms) V: 15 mm + 0.5 ppm (rms)
Static	Hz: 3 mm + 0.5 ppm (rms) V: 5 mm + 0.5 ppm (rms)
Static long	Hz: 3 mm + 0.1 ppm (rms) V: 3.5 mm + 0.4 ppm (rms)
Tilt compensated real-time kinematic	Additional Hz uncertainty 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) Withstands powerful jets and temp. immersion under water MIL-STD-810G 1 506.6 & 1 512.6 Fully dust tight 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.

Figures quoted assume normal to favourable conditions. GeoMax reserves the right to change, without notice, product offerings or specifications.

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