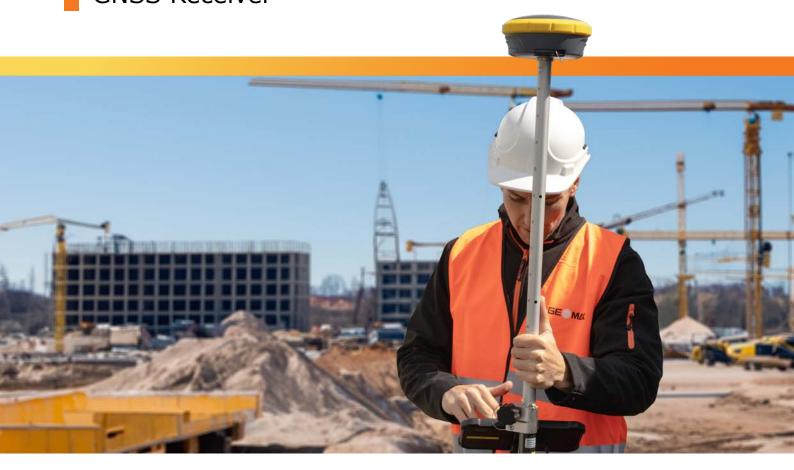


#### **Zenith60 Pro**

**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** 

f in





geomax-positioning.com

### **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	B1l, B1C, B2l, B2a, B2b, B3l, 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	<b>% PERFORMANCE *</b>	
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 SPECIFICA	ATIONS	
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	
	MIL-STD-810G 1 510.6	
Humidity	MIL-STD-810G 1 510.6 MIL-STD-810H 1 507.6	
Humidity Vibration		

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

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