

Zenith06

Smart Antenna



No frills

- Simple RTK rover solution
- Compact and light design

More benefits

- Save time and money
- Perform reliable measurements
- More flexibility: Choose a GeoMax controller or bring your own device to run X-PAD

Unique Software

- Intuitive software developed with customer feedback
- No maintenance cost for field software

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

Zenith06

Simple and efficient, everything you need.



You need accurate results without having to invest in expensive and complex equipment? GeoMax has a solution: the Zenith06 smart antenna with X-PAD field software.

This simple rover and intuitive field software eliminate the need for extensive training to produce reliable outcomes. The software has an intuitive workflow, developed side by side with the customer, which allows for quick familiarisation. The maintenance for X-PAD field software comes at no extra cost and an active X-PERT service will grant access to X-PAD improvements.

With its compact, lightweight design, the Zenith06 is easy to carry in the field and gentler on your body.

RECEIVER SPECIFICATIONS

Reliability	99.9%
Measurement Engine	184 channels, dual-frequency, multi-constellation
GPS tracking	L1 C/A, L2C
GLONASS tracking	L1OF, L2OF
Galileo tracking	E1 B/C, E5b
BeiDou tracking	B1I, B2I
QZSS tracking	L1 C/A, L2C
SBAS tracking	L1
Positioning rate	10 Hz
Initialisation time	typ. 8 sec

RECEIVER ACCURACY AND PERFORMANCE *

RTK	Hz: 2 cm + 1 ppm V: 3 cm + 1 ppm
Static	Hz: 2 cm + 1 ppm V: 3 cm + 1 ppm
GNSS Initialisation	Cold start: 24 sec Reacquisition: 2 sec

COMMUNICATION

4G LTE modem	Available on Zenius controllers
Bluetooth®	BT4.2 LE
Communication port	USB Type C
RTK data protocols	RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM MSM

INTERFACES

Keyboard	On/off button
LED status indicators	Bluetooth, RTK, Position, Battery

PHYSICAL SPECIFICATIONS

Dimensions	139 mm x 80.6 mm x 30.6 mm
Weight	340 g
Operating temp.	-40°C to +65°C
Environmental protection	IP67 water- and dustproof
Humidity	Rarely and slightly condensing. ISO 9022-12-04 (+65°C, 92%, 62h)
Vibration	Withstands strong vibration. ISO 9022-36-03-0
Shock	Withstands a 1.2 m drop onto a hard surface

POWER SUPPLY

Internal battery	Li-Ion 3.8 V / 6.12 Ah
Operating time	> 20 h

* Measurement precision, accuracy, reliability and time for initialisation are dependent upon various factors including number of satellites, observation time, atmospheric conditions, multipath etc. Figures quoted assume normal to favourable conditions. A full Galileo constellation will further increase measurement performance and accuracy.



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