

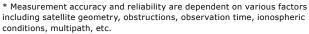


Zenith55

GNSS Receiver

VARIANTS	4G LTE UHF COMPENSATION
GeoMax Zenith55 LTE-UHF-IMU	
RECEIVER SPECIFICATIONS	
Measurement Engine	600+ channels, multi-frequency, multi-constellation
GPS tracking	L1 C/A, L1P, L1C, L2C, L2P, L5
GLONASS tracking	L1 C/A, L2 C/A, 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	10 Hz
Time for Initialisation	Typically 6s
QUALITY MODE	
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	TRM101, 500 mW, 1000 mW transceiver, 410-470 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: 10 mm + 1 ppm (rms) V: 20 mm + 1 ppm (rms)
Network RTK	Hz: 10 mm + 0.5 ppm (rms) V: 20 mm + 0.5 ppm (rms)
Static	Hz: 5 mm + 0.5 ppm (rms) V: 8 mm + 0.5 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



^{**} Glonass L3 will be provided through future firmware upgrade.

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