

GeoMax GNSS Comparison Chart



	Zenith16	Zenith35 Pro	Zenith35 Pro TAG	Zenith40
NOVATEL MEASUREMENT ENGINE				
RTK technology	Q-Lock Pro™	NovAtel AdVance®	NovAtel AdVance®	Q-Lock Pro™
Channels	181	555	555	555
Multi-frequency	✓	✓	✓	✓
GPS / GLONASS / Galileo / BeiDou / QZSS / SBAS	✓/✓/✓/✓/✓/✓/✓	✓/✓/✓/✓/✓/✓/✓	✓/✓/✓/✓/✓/✓/✓	✓/✓/✓/✓/✓/✓/✓
5 Hz / 20 Hz positioning rate	✓/✗	✓/✗	✓/✓ (opt)	✓/✓ (opt)
Precise Point Positioning (PPP)	✗	✗	✗	✓
TILT SOLUTION				
Tilt&Go (Single/Dual Mode)	✗	✗	✓	✗
X-TILT	✓	✓	✓	✓
ACCURACY (RMS)***				
Static H/V (mm + ppm)	5 + 0.5 / 10 + 0.5	3 + 0.5 / 5 + 0.5	3 + 0.5 / 5 + 0.5	3 + 0.5 / 5 + 0.5
RTK H/V (mm + ppm)	10 + 1 / 20 + 1	8 + 1 / 15 + 1	8 + 1 / 15 + 1	8 + 1 / 15 + 1
Static long H/V (mm + ppm)	3 + 0.1 / 3.5 + 0.4	3 + 0.1 / 3.5 + 0.4	3 + 0.1 / 3.5 + 0.4	3 + 0.1 / 3.5 + 0.4
COMMUNICATION				
UHF radio module	SATEL (opt)	SATEL	SATEL	SATEL (opt)
Bluetooth® / WiFi / celular	✓/✗/✗	✓/✓/✓	✓/✓/✓	✓/✗/✓
USB, serial and power	✓	✓	✓	✓
QR-iConnect	✓	✗	✗	✓
Zenith Manager	✓	✗	✗	✓
INTERFACES				
Removable microSD / SIM card	✓/✗	✓ and 8 GB internal memory / ✓	✓ and 8 GB internal memory / ✓	✓/✓
PicPoint / X-Pole support	✓/✓	✓/✓	✓/✓	✓/✓
POWER SUPPLY				
External power / Internal battery / Smart battery	Lemo® plug / Removable, Li-Ion 2.6 Ah / ✗	Lemo® plug / Removable, Li-Ion 3.4 Ah / ✓	Lemo® plug / Removable, Li-Ion 3.4 Ah / ✓	Lemo® plug / Removable, Li-Ion 2.6 Ah / ✗
Operating time (static/rover)	9 h / 6 h	8h / 6h	8h / 6h	9h / 6h
PHYSICAL SPECIFICATIONS				
Dimensions / Weight **	Height 95 mm, ø 198 mm / 1.09 kg	Height 131 mm, ø 161 mm / 1.17 kg	Height 131 mm, ø 161 mm / 1.17 kg	Height 95 mm, ø 198 mm / 1.14 kg
Operating temperature	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C
IP68 proof against water, sand and dust	✓	✓	✓	✓
Vibration	Mechanical stress resistant according to ISO 9022-36-05	ASAE EP455 Section 5.15.1 Random, MIL-STD-810G, method 514.6E-1	ASAE EP455 Section 5.15.1 Random, MIL-STD-810G, method 514.6E-1	Mechanical stress resistant according to ISO 9022-36-05
Shock - Withstands 2 m drop onto hard surface	✓	✓	✓	✓

✓ = Standard ✗ = Not available