

GNSS SPECIFICATIONS

Model		G/N
Channel Configuration		555 channels
		Multi-Frequency GPS, GLONASS, Galileo,
		Beidou, IRNSS*1 and QZSS
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Receiver Board		NovAtel 719
Signal Tracking	GPS	L1 C/A, L1P, L1C, L2P, L2C, L5
	GLONASS	L1 C/A, L2C, L2P, L3, L5
	BEIDOU	B1, B2, B3
	Galileo	E1, E5 AltBOC, E5a, E5b, E6
	QZSS	L1 C/A, L1C, L2C, L5, L6
	SBAS	
		L1, L5
	NavIC (IRNSS) *1	L5
	L-Band	up to 5 channels
Position Accuracy	SBAS (WAAS, GAGAN etc.)	0.5 m
	DGPS	0.4 m
RTK Performance	Horizontal Accuracy	8 mm + 1 ppm
	Vertical Accuracy	**
		15 mm + 1 ppm
	Horizontal Accuracy (Network RTK)	8 mm + 0.5 ppm
	Vertical Accuracy (Network RTK)	15 mm + 0.5 ppm
	Average Time to Work	Typ. < 10 sec.
	Availability/Initialization Reliability	> 99.9%
Static Performance	Horizontal Accuracy(Long time observation) *2	3 mm + 0.1 ppm
	Vertical Accuracy(Long time observation) *2	3.5 mm +0.4 ppm
	Horizontal Accuracy	2.5 mm + 0.5 ppm
	Vertical Accuracy	5 mm + 0.5 ppm
PPP (Precision Point Positioning)		Horizontal 40mm with TerraStar C (optional)
Ports		Lemo 5-pin, external radio and power supply
		Lemo 7-pin, serial port and USB
Internal Radio Modem	Frequency	410 Mhz - 470 Mhz
	Output Power	0.5 W / 1 W
Cell Modem	Modem	Worldwide LTE
	Frequency Bands	UMTS/HSPA+/GSM/GPRS/EDGE
	Network Protocol	NTRIP, HTTP, FTP
Power	Internal Battery	3,350 mAh / 7.4 V x2
	Current Drain	0.35 A / 12 V
	Current Brain	1.25 A / 12 V max.
	D. H. D. D. L. Time	
	Battery Running Time	Approx. 12 hr: Rover, 10 hr: Base with 2 Batteries
Weight		1.1 kg with 2 batteries
Dimensions		Ø 130 mm x H 100 mm
Environmental Specifications	Operating Temperature	-30 °C to +65 °C
	Storage Temperature	-30 °C to +65 °C
	Shock/Drop	2 m
Velocity Accuracy	Standalone	0.03 m/sec RMS
Data Output	Raw Data output frequency	5 Hz (20 Hz optional)
	NMEA Data output frequency	5 Hz (20 Hz optional)
	Correction data Protocol	RTCM Ver 2.1, 2.2, 2.3, 3.0, 3.1, 3.2
		CMR, CMR+, sCMRx
Time to First Fix	Cold Start	< 50 sec
	Warm Start	< 35 sec
	Reacquisition	<1 sec
WiEi	neacquisition	
WiFi	Florida Dallala	IEEE 802.11b/g
IMU	Electric Bubble	Yes
	Tilt compensated	Tilt range up to 60°
	Tilt accuracy	10 mm + 0.4 mm/° (up to 30°)
	Reliability	Magnetism interference free
Bluetooth		Class 2
Memory		Internal 8 GB and MicroSD 8 GB
RoHS		Complied
Waterproofing		IP67
Certification		CE
Standard Accessories		2 x Li-lon rechargeable battery pack
		Battery charger + AC Adapter
		5/8 inch screw adapter
		Lemo 7-pin communication cable
		CD (contains manual and data conversion software)

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^{*2} Performance, Accuracy and Reliability are dependent upon various factors including satellite geometry, number of satellites, ionospheric conditions, atmospheric conditions and multipath.