

TI Asahi Co.,Ltd Focusing on true performance

GNSS SPECIFICATIONS

Model		G6Ti	G6Ni
Channel Configuration		220 channels	555 channels
		Multi frequency for GPS,	Multi frequency for GPS, GLONASS,
		GLONASS, Galileo, Beidou and Qzss	Galileo, Beidou, IRNSS *1 and Qzss
Receiver Board		Trimble BD930	NovAtel 719
Signal Tracking	GPS	L1 C/A, L2E, L2C, L5	L1 C/A, L1C, L2C, L2P, L5
	GLONASS	L1 C/A, L2C/A, L3CDMA *2	L1 C/A, L2C, L2P, L3, L5
	BEIDOU	B1 / B2	B1, B2, B3
	Galileo	E1, E5A, E5B, E5AltBOC	E1, E5 AltBOC, E5a, E5b, E6
	QZSS	L1 C/A, L1 SAIF, L2C, L5	L1 C/A, L1C, L2C, L5, L6
	SBAS	L1 C/A, L5	L1, L5
	NavIC (IRNSS) (*1)	ET C/A, ES	L5
	L-Band		up to 5 Channels
Docition Accuracy	L-Ddflu	Horizontal / Vertical	
Position Accuracy	CDAC (MAAC CACAN -+-)	0.5 m / 0.85 m	
	SBAS (WAAS, GAGAN etc.)		
	DGPS	0.4 m / 0.6 m	
RTK Performance	Horizontal Accuracy (Single baseline)	8 mm + 1 ppm	
	Vertical Accuracy (Single baseline)	15 mm + 1ppm	
	Average Time to Work	Typ. < 10 sec.	
	Availability/Initialization Reliability	> 99.9%	
Static Performance	Horizontal Accuracy (Long time observation) *3		3 mm + 0.1 ppm
	Vertical Accuracy (Long time observation) *3		3.5 mm +0.4 ppm
	Horizontal Accuracy	2.5 mm + 0.5 ppm	
	Vertical Accuracy		0.5 ppm
PPP (Precision Point Positioning)	· · · · · · · · · · · · · · · · · · ·		Horizontal 40 mm with TerraStarC (optional)
Ports Internal Radio Modem		Lemo 5-pin, external r	adio and power supply
		Lemo 7-pin, serial port and USB	
	Frequency	410 Mhz - 470 Mhz	
	Output Power	0.5 W / 1 W	
GSM/GPRS Modem		LTE FDD / LTE TDD / WCDMA / CDMA / GSM	
	Frequency Bands	NTRIP, HTTP, FTP	
Power	Network Protocol		
	Internal Battery	3,350 mAh / 7.4V x2 0.35A / 12V	
	Current Drain		
		1.25A / 12V max.	
	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	0.007 m/sec, 0.020 m/sec	0.03 m/s RMS
Data Output	Raw Data	up to 20 Hz	up to 5 Hz (20 Hz optional)
	NMEA Data	up to 20 Hz	up to 5 Hz
	Correction Data	RTCM Ver 2.1, 2.2, 2.3, 3.0, 3.1, 3.2	
		CMR, CMRx	
Time to First Fix	Cold Start	< 45 sec	< 40 sec
	Warm Start	< 30 sec	< 19 sec
		< 30 sec < 2 sec	
	RE-acquisition		< 1 sec
WiFi		IEEE 802.11b/g	
Tilt Sensor		Electric Bubble	
		Range 30°/< 30mm	
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	
		UHF radio antenna (longer one)	
		5/8 inch screw adapter	
		Lemo 7-pin communication cable	
		CD (contains manual and data conversion software)	

- *2 There is no public GLONASS L3 CDMA, the current capability in the receivers is based on public available information. As such, Trimble cannot gaurantee that these receivers will be fully compatible.
- Performance, Accuracy and Reliability are dependent upon various factors including satellite geometry, number of satellites, ionospheric conditions, atmospheric conditions and multipath.

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