



GNSS SPECIFICATIONS

Model		G6Ti	G6Ni	
Channel Configuration		220 channels (dual frequency) for GPS, GLONASS, Galileo, Beidou and SBAS	555 channels (dual frequency) for GPS, GLONASS, Beidou and SBAS	
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	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)	·	L5	
	L-Band		up to 3 Channels	
Position Accuracy		Horizontal / Vertical		
	SBAS (WAAS, GAGAN etc.)	0.5 m / 0.85 m		
	DGPS	0.25 m + 1 ppm / 0.5 m + 1 ppm		
RTK Performance	Horizontal Accuracy	0.008 m + 1 ppm	0.010 m + 1 ppm	
	Vertical Accuracy	0.015 m + 1 ppm	0.020 m + 1 ppm	
	Average Time to Work	***	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)		3 111111 7	Horizontal 40mm with TerraStarC (optional)	
		Lama 5 nin aytarnal		
Ports		Lemo 5-pin, external radio and power supply Lemo 7-pin, serial port and USB		
Internal Radio Modem	Frequency	· · · · · · · · · · · · · · · · · · ·	·	
internal Naulo Modelli	Output Power	TRM101		
GSM/GPRS Modem	Output Power	0.5 W / 1 W		
GSM/GPRS Modem		Gemalto PHS8-P		
		UMTS / HSPA+ / GSM / GPRS / EDGE		
	Internal Dettern	(supporting NTRIP)		
Power	Internal Battery	3,350 mAh / 7.4V x2		
	Current Drain	0.35A / 12V 1.25A / 12V max.		
	D. H D T'	Approx. 12 hr: Rover, 10 hr: Base with 2 Batteries		
Weight		1.1 kg with 2 batteries		
Dimensions	O T	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		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	1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz	Default 5 Hz	
		RTCM Ver 2.1, 2.2, 2.3, 3.0, 3.1, 3.2		
		CMR, CMR+, sCMRx		
Time to First Fix	Cold Start	< 45 sec	< 50 sec	
	Warm Start	After power-on < 30 sec	After power-on < 35 sec	
		Re-acquisition < 2 sec	Re-acquisition < 1 sec	
WiFi		IEEE 802.11b/g		
Tilt Sensor		Electric Bubble		
		Range 30°/< 30mm		
Bluetooth		Class 2		
Memory			nd MicroSD 4 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		
		5/8 inch sc	rew adapter	
			rew adapter munication cable	

2* 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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TI Asahi Co., Ltd.

International Sales Department 4-3-4 Ueno Iwatsuki-Ku, Saitama-Shi Saitama, 339-0073 Japan Tel.: +81-48-793-0118

Fax. +81-48-793-0128 E-mail: International@tiasahi.com







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