

TI Asahi Co.,Ltd
Aiming at the future together!

## **GNSS SPECIFICATIONS**

Model		G6TiE	G6NiE
Channel Configuration		220 channels (dual frequency) for GPS,	555 channels (dual frequency) for GPS,
		GLONASS, Galileo, Beidou and SBAS	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)*		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	Typ. < 10 sec.	
	Availability/Initialization Reliability	> 99.9%	
Static Performance	Horizontal Accuracy	2.5 mm + 0.5 ppm	
	Vertical Accuracy	5 mm + 0.5 ppm	
PPP (Precision Point Positioning)	,		Horizontal 40mm with TerraStarC (optional)
Ports		Lemo 5-pin, external radio and power supply	
		Lemo 7-pin, serial port and USB	
Power	Internal Battery	3,350 mAh / 7.4V x2	
	Current Drain	0.35A / 12V	
	Current Drum	1.25A / 12V max.	
	Battery Running Time	Approx. 12 hr: Rover, 10 hr: Base with 2 Batteries	
Weight	Duttery manning mine	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	
/elocity 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
	Time ( Dutu	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
	Traini Start	Re-acquisition < 2 sec	Re-acquisition < 1 sec
Tilt Sensor		Electric Bubble	
		Range 30°/< 30mm	
Memory		Internal 4 GB and MicroSD 4 GB	
RoHS		Complied	
Naterproofing		IP67	
Certification		CE	
Standard Accessories			
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)	

<sup>\*</sup> Hardware ready

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