





## **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	cns	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	CDAC (MAAC CACANI)	Horizontal / Vertical				
	SBAS (WAAS, GAGAN etc.)	0.5 m / 0.85 m				
DTV D (	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.			
to the Designation	Availability/Initialization Reliability	> 99.9%				
itatic Performance	Horizontal Accuracy		+ 0.5 ppm			
ND (D 11 D 14 D 14 1 )	Vertical Accuracy	5 mm + 0.5 ppm				
PPP (Precision Point Positioning)		Horizontal 40mm with TerraStarC (option				
Ports			adio and power supply			
	1		ial port and USB			
Power	Internal Battery	3,350 mAh / 7.4V x2				
	Current Drain	0.35A / 12V				
		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			x H 100 mm			
Environmental Specifications	Operating Temperature	-30 °C to +65 °C				
	Storage Temperature		o +65 °C			
	Shock/Drop		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				
		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			
Filt Sensor		Electric Bubble				
		Range 30°/< 30mm				
Memory		Internal 4 GB and MicroSD 4 GB				
RoHS		Complied				
Naterproofing		IP67				
Certification		CE				
Standard Accessories			eable 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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