PENTAX | Positioning Systems

G5 Series

G5Tw | G5Tt | G5Nw | G5Nt

GPS | GLONASS | BEIDOU | SBAS GALILEO (G5Tw & G5Tt ONLY)



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

GNSS SPECIFICATIONS

Model		G5Tw	G5Tt	G5Nw	G5Nt	
Channel Configuration		220-channels (dual frequency) for GPS, GLONASS, Galileo, Beidou and SBAS		120-channels (dual frequency) for GPS, GLONASS, Beidou and SBAS		
Receiver Board		Trimble BD970			NovAtel 628	
Single Tracked	GPS	L1 C/A, L2E, L2C, L5		L1, L2, L2C		
	GLONASS		/A (M only), L2P	L1, I		
	BEIDOU			1 / B2		
	Galileo	LIBOC ESA	, E5B, E5AltBOC	_		
	QZSS	L1 C/A, L1 SAIF, L2C, L5				
	SBAS	L1 C/A, L5				
Position Accuracy	JDAJ					
	CDAC	0.5 1	Horizontal / Vertical 0.5 m / 0.85 m 0.6 m			
	SBAS		0.25 m +1 ppm / 0.5 m + 1ppm 0.4 m			
	DGPS				777	
RTK Performance	Horizontal Accuracy		+ 1 ppm	0.010 m +		
	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	2.5 mm + 0.5 ppm				
	Vertical Accuracy	5 mm + 0.5 ppm				
Ports		Lemo 5-pin, external radio and power supply				
		Lemo 7-pin, serial port and USB				
Internal Radio Modem	Frequency	410 ~ 470 MHz				
	Output Power	1 W				
GSM/GPRS Modem	output i one.	Telit HE910-D				
		UMTS / HSPA+ / GSM / GPRS / EDGE				
	Internal Destruction	(supporting NTRIP)				
Power	Internal Battery	3,350 mAh / 7.4V x2				
	Current Drain	0.45A / 12V				
		1.5A / 12V max.				
	Battery Running Time	Approx. 10 hr: Rover, 8 hr: Base				
Weight		1.5 kg with 2 batteries				
Dimensions		Ø 186 mm x H 89.7 mm				
Environmental Specifications	Operating Temperature	-20 °C to +65 °C				
	Storage Temperature	-20 °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 Time to First Fix	No. 2 10 10 10 10 10 10 10 10 10 10 10 10 10	up to 50 Hz		up to 5 Hz		
			10 Hz, 20 Hz, 50 Hz	1 Hz,		
		1112, 2112, 3112, 1		Manager Manager	7112	
		RTCM Ver 2.1, 2.4, 2.3, 3.0, 3.1, 3.2 CMR, CMR+, sCMRx				
	Cold Start	< 45 sec			ror.	
Time to First Fix	TO CONTROL OF THE PARTY OF THE	After power-on < 30 sec		< 50 sec After power-on < 35 sec		
	Warm Start	Re-acquisition < 2 sec		Re-acquisition < 1 sec		
wiri		Ke-acquisi			on < 1 sec	
WiFi			The second secon	02.11b/g	Flores B. J. S.	
Tilt Sensor		_	Electric Bubble	-	Electric Bubble	
Bluetooth				ass 2		
Memory		MicroSD 4 GB				
RoHS				-		
Waterproofing		IP67				
Certification		CE				
Standard Accessories		2 x Li-lon rechargeable battery pack				
		Battery charger + AC Adapter				
		4 GB MicroSD Card				
		UHF radio antenna (longer one)				
		5/8 inch screw adapter				
		AND				
		Lemo 7-pin communication cable				

PENTAX Positioning System is dedicated to providing customers with first class positioning system products and freedom of choice. We have carefully designed high-quality products to meet the needs of today's surveyors based on the experience of many years involved in instrument design and construction. Our engineers have been involved in Survey products since the beginning of the Satellite Surveying Era. We are committed to ease of use, a low cost of ownership and flexibility to accommodate different working environments. Our close partners are carefully chosen and are committed to these values as we are.

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Instruments Manufacturers' Association representing the high quality surveying products.