

PENTAX

Positioning Systems **G2100 Series**

Precision Satellite Surveying
with Wireless Communications

G2100T | G2100N

GPS | GLONASS | BEIDOU | SBAS
GALILEO (G2100T ONLY)



Presenting new GNSS receivers for even better performance! Our top deal model G2100N with all the essentials you need and the more advanced G2100T.

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

GNSS SPECIFICATIONS

Model		G2100T	G2100N
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	L1 C/A, L1P, L2 C/A (M only), L2P	L1, L2
	BEIDOU		B1 / B2
	Galileo	L1BOC, E5A, E5B, E5AltBOC	—
	QZSS	L1 C/A, L1 SAIF, L2C, L5	—
	SBAS		L1 C/A, L5
Position Accuracy		Horizontal / Vertical	
	SBAS	0.5 m / 0.85 m	0.6 m
	DGPS	0.25 m + 1 ppm / 0.5 m + 1 ppm	0.4 m
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 + 1 ppm	
	Vertical Accuracy	5 mm + 1 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		UMTS / HSPA+ / GSM / GPRS / EDGE (supporting NTRIP)	
Power	Internal Battery	3350 mAh / 7.4V x2	
	Current Drain	0.4A / 12V	
		1.25A / 12V max.	
	Battery Running Time	Approx. 10 hr: Rover, 8 hr: Base	
Weight		1.4 kg with 2 batteries	
Dimensions		198.5 mm x 197.5 mm x H 99 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		up to 50 Hz	max. 5 Hz
		1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz, 50 Hz	1 Hz, 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		—	
Tilt Sensor		—	
Bluetooth		Class 2	
Memory		Internal 4 GB	
Waterproofing		IP55	
Certification		CE	
Standard Accessories		2 x Li-Ion rechargeable battery pack	
		Battery charger	
		UHF radio antenna	
		5/8 inch screw adapter	
		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 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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The CE marking assures that this product complies with the requirements of the EC directive for safety.

JSIMA
 Japan Surveying Instruments Manufacturers' Association

Member symbol of the Japan Surveying Instruments Manufacturers' Association representing the high quality surveying products.