

PENTAX

Positioning Systems

Model

G6NA

Precision Satellite Surveying
with Wireless Communications

GPS | GLONASS | BEIDOU | SBAS | GALILEO



- + Compact and durable metal housing
- + Better dust and weather resistance (IP67)
- + Equipped with TILT sensor that works as an electric bubble
- + WiFi for direct communication with web browser for e.g. downloading data, firmware upgrades and communication between receiver and controller

TI Asahi Co.,Ltd
Focusing on true performance

GNSS SPECIFICATIONS

Model		G6NA
Channel Configuration		550 channels Multi-Frequency GPS, GLONASS, Galileo, Beidou, IRNSS (*1) and QZSS NovAtel 719
Receiver Board		
Signal Tracking	GPS	L1C/A, L1C, L2C, L2P, L5
	GLONASS	L1C/A, L2C, L2P, L3, L5
	BEIDOU	B1, B2, B3
	Galileo	E1, E5, AltBOC, E5a, E5b, E6
	QZSS	L1C/A, L1C, L2C, L5, L6
	SBAS	L1, L5
	NavIC (IRNSS)	L5
	L-Band	up to 5 channels
Position Accuracy		Horizontal / Vertical
	SBAS (WAAS, GAGAN etc.)	0.5 m / 0.85 m
	DGPS	0.4 m / 0.6 m
RTK Performance	Horizontal Accuracy (Single baseline)	8 mm + 1 ppm
	Vertical Accuracy (Single baseline)	15 mm + 1 ppm
	Average Time to Work	Typ. < 10 sec.
	Availability/Initialization Reliability	> 99.9%
Static Performance	Horizontal Accuracy (Long time observation) *3	3 mm + 0.1 ppm
	Vertical Accuracy (Long time observation) *3	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)		Horizontal 40 mm 1th TerraStarC (optional)
Ports		Lemo 5-pin, external radio and power supply Lemo 7-pin, serial port and USB
Internal Radio Modem	Frequency	410 Mhz - 470 Mhz
	Output Power	0.5 W / 1 W
GSM/GPRS Modem	Frequency Bands	LTE FDD / LTE TDD / WCDMA / CDMA / GSM
	Network Protocol	NTRIP, HTTP, FTP
Power	Internal Battery	3,350 mAh / 7.4 V x2
	Current Drain	0.35 A / 12 V 1.25 A / 12 V max.
	Battery Running Time	Approx. 12 hr: Rover, 10hr: Base with 2 batteries
Weight		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
Velocity Accuracy	Standalone	0.03 m/sec RMS
Data Output	Raw Data	up to 5 Hz (20 Hz optional)
	NMEA Data	up to 5 Hz
	Correction data	RTCM Ver 2.1, 2.2, 2.3, 3.0, 3.1, 3.2 CMR, CMR+, sCMRx
Time to First Fix	Cold Start	< 40 sec
	Warm Start	< 19 sec
	Reacquisition	< 1 sec
WiFi		IEEE 802.11 b/g
Tilt Sensor		Electric Bubble Range 30° / < 30 mm
Bluetooth		Class 2
Memory		Internal 8GB and Micro SD 8 GB
Waterproofing		IP 67
Certification		CE
Standard Accessories		2 x Li-Ion rechargeable battery pack Battery charge + AC Adapter UFH radio Antenna (longer one) 5/8 inch screw adapter Lemo 7-pin communication cable CD (contains manual and data conversion software)

*1 Hardware ready

*2 Performance, Accuracy and Reliability are dependent upon various factors including satellite geometry, number of satellites, ionospheric conditions, atmospheric conditions and multipath.

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.

www.pentaxsurveying.com/en/

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ISO 9001: 2015 Certified



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.

Designs and specifications are subject to change without notice, configuration is subject to changes per country, please contact your local dealer