

GNSS SPECIFICATIONS

The LGN-200S features the XXB2 GPS/GLONASS/BEIDOU dual frequency receiver, the latest entrant to the high precision positioning market. The XXB2 engine includes RAIM and provides outstanding performance for Survey and GIS applications.

Model		LGN-200S			
Channel Configuration		136 channels (dual frequency) for GPS, GLONASS, BEIDOU and SBAS			
Single Tracked	GPS	L1-C/A, L1-P(Y), L2-P(Y) and L2C			
	GLONASS	L1-C/A, L2-C/A			
	BEIDOU	B1/B2			
Position accuracy		HORIZONTAL		VERTICAL	
	Standalone	1.3 m		1.9 m	
	SBAS	0.6 m		0.8 m	
	DGPS	0.5 m		0.9 m	
RTK Performance	Horizontal Accuracy		6 mm + 0.5 ppm *1		
	Vertical Accuracy	10 mm + 1 ppm			
	Average Time to Work	7 sec.			
	Availability	99.99%* ¹ (Baseline < 20km)			
Static Performance	Horizontal Accuracy	2 mm + 0.5 ppm			
	Vertical Accuracy	5 mm + 0.5 ppm			
Ports		Lemo 5-pin, serial port for Handheld PC (RS232C)			
		Lemo 8-pin, serial port for external radio/modem			
		Lemo 4-pin for external power (+9VDC - +15VDC)			
Internal Radio Modem*2	Frequency	403-473 MHz			
	Output Power	Max. 1W			
GSM/GPRS Modem	Protcol	NTRIP			
Power	Internal Battery	2 x Li-lon (Swappable), 2500 mAh, 7.4V			
	Battery Running Time	Approx. 10 hours with 2 Batteries			
Weight		1.4 kgs with 2 batteries			
Dimensions		198.5 mm x 197.5 mm x H 99 mm			
Environmental Specifications	Operating Temperature	-30°C to +70°C *2			
	Storage Temperature	-40°C to +75°C			
	Shock/Drop	2 m			
Velocity Accuracy	6. 11			VERTICAL	
Data Outside	Standalone	2 cm/sec 4 cm/sec			
Data Output		25Hz data output rate (User selectable)			
		NMEA v2.3 output format, up to 10 Hz RTCM SC104 v2.2, 2.3, 3.0 or 3.1			
		CMR2.0 and CMR+		OF 3.1	
Latanau			< 20 msec		
Latency Time to First Fix	Cold Start		< 45 sec		
Time to First Fix	Warm Start	After power-on < 20 sec			
	Waitii Stait	Re-acquisition < 1.2 sec			
Bluetooth		Class 2			
RoHS		Compliant			
Waterproofing		IP67			
Certification		CE			
Accessories	Standard	2 x Li-lon rechargeable battery pack			
		Battery charger			
		2 GB SD Card			
		UHF radio antenna			
	Option	Controller			
		External power cables			
		External radio/modem cable			
		Carbon Pole			
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- *1 GNSS precision and reliability are subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions.
- *2 Functional
- *3 Receiver without Internal Radio Modem connected (model name LGN-200S) is optionally available.

Linertec 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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