

LINERTEC

LGN-300 Positioning System

Precision satellite surveying
with wireless communications

**GPS / GLONASS / BEIDOU /
SBAS / GALILEO**



- New 3.75G GSM module for better performance
- Rugged shape and robust styling with rubber
- 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

GNSS SPECIFICATIONS

Model	LGN-300	
Channel Configuration	120-channels (dual frequency) for GPS, GLONASS, Beidou, SBAS, Galileo and QZSS	
Receiver Board	NovAtel 628	
Single Tracked	GPS	L1, L2, L2C
	GLONASS	L1, L2
	BEIDOU	B1 / B2
	Galileo	E1, E5a, E5b, AltBOC
	QZSS	L1, L2C, L5
	SBAS	—
Position Accuracy	Horizontal / Vertical	
	SBAS	0.6 m
	DGPS	0.4 m
RTK Performance	Horizontal Accuracy	0.010 m + 1 ppm
	Vertical Accuracy	0.020 m + 1 ppm
	Average Time to Work	Typ. < 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	Telit HE910-D UMTS / HSPA+ / GSM / GPRS / EDGE (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	0.03 m/s RMS
Data Output	up to 5 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	< 50 sec
	Warm Start	After power-on < 35 sec
	Re-acquisition < 1 sec	
WiFi	IEEE 802.11b/g	
Tilt Sensor	Electric Bubble	
Bluetooth	Class 2	
Memory	MicroSD 8GB (Max. 32GB)	
RoHS	—	
Waterproofing	IP67	
Certification	CE	
Standard Accessories	2 x Li-Ion rechargeable battery pack	
	Battery charger + AC Adapter	
	8 GB MicroSD Card	
	UHF radio antenna (longer one)	
	5/8 inch screw adapter	
	Lemo 7-pin communication cable	

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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The CE marking assures that this product complies with the requirements of the EC directive for safety.