

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 p | pm *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 | | |
| meriai naaro modelli | Output Power | Max. 1W | | |
| GSM/GPRS Modem | Protcol | NTRIP | | |
| Power | Internal Battery | 2 x Li-lon (Swappable), 2500 mAh, 7.4V | | |
| I OWEI | Battery Running Time | Approx. 10 hours with 2 Batteries | | |
| Weight | battery kuming mine | Approx. To nours with 2 batteries 1.4 kgs with 2 batteries | | |
| Dimensions | | 198.5 mm x 197.5 mm x H 99 mm | | |
| | Operating Temperature | -30°C to +70°C * 2 | | |
| Environmental Specifications | Operating Temperature Storage Temperature | -30°C to +70°C * 2 -40°C to +75°C | | |
| | | | | |
| Velocity Accuracy | Shock/Drop | 2 m | VEDTICAL | |
| | Cr. dalam | HORIZONTAL | VERTICAL | |
| Data Output | Standalone | 2 cm/sec 4 cm/sec | | |
| | | 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+ | | |
| Later and | | | | |
| Latency | Caldida | < 20 msec | | |
| Time to First Fix | Cold Start | < 45 sec | | |
| | Warm Start | After power-on < 20 sec | | |
| Discount of the control of the contr | | 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 Carbon Pole | | |

- *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.

TI Asahi Co., Ltd.

International Sales Department 4-3-4 Ueno Iwatsuki-Ku, Saitama-Shi Saitama, 339-0073 Japan Tel.: +81-48-793-0118 Fax. +81-48-793-0128 E-mail: International@tiasahi.com

www.tilinertec.com





