SL900 GNSS Receiver

Data Specifications

GNSS	
Signal	Tracking

GNSS		///////////////////////////////////////
Signal Tracking	GPS (L1C/A、L2E, L2C, L5) BeiDou (B1, B2, B3 ¹) GLONASS (L1C/A, L1P, L2C/A, L3 CDMA ²) Galileo ³ (E1, E5A, E5B, E5AltBOC, E6 ²) IRNSS (L5) OZSS (L1 C/A, L2C, L5) SBAS (L1C/A, L5 QZSS, WAAS, MSAS, GAGAN, EGNOS) L-Band: OmniSTAR, Trimble RTX (optional)	
No. of Channels	336	
MEASUREMENT PERFORMAN Real-time Kinematic Network RTK Post Processing Kinematic High-precision Static Static and Fast Static DGPS Position Accuracy SBAS Position Accuracy Code Differential Initializing Time Initializing Reliability Tilt Compensation	H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS H: 8mm + 0.5ppm RMS / V: 15mm + 0.5ppm RMS H:8mm + 1ppm RMS / V:15mm + 1ppm RMS H:2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS H:2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS H:25cm RMS / V: 50cm RMS H:50cm RMS / V: 85cm RMS DGPS/RTCM 2-10s 99.9% 4cm accuracy in the inclination of 30°	
COMMUNICATIONS Communication Ports	Internal 4G Mobile Network TDD-LTE/FDD-LTE/WCDMA/GPRS/GSM NTrip Enabled Bluetooth: V2.1 + EDR, NFC Wi-Fi: 2.4G , 802.11b/g/n Internal radio: SATLAB advance radio Satlab Integrated Antenna Power: 1W/2W/4W adjustable Frequency: 403MHz-473MHz (4FSK,GMSK) Protocol: TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc Transmitting speed: 19.2kbps / 9.6kbps	
SYSTEM Operation System Start-up Time Data Storage	Linux 3s Circulating 16GB Internal Storage; Supports 32G SD card	
DATA MANAGEMENT	1 Hz Update (up to 50 Hz) CMR, CMR+, RTCM2.X, RTCM3.0, RTCM3.2 GNS, Rinex	
GENERAL Environmental Physical Properties	IP67 environmental protection Waterproof to 1m (3.28ft) depth Temporary Submersion Shock resistant body to 2m (6.5ft) pole drop Temperature -40°C to 65°C Operating -40°C to 85°C Storage Shock and vibration: MIL-STD-810G, 514.6 Size: 170mm x 95mm Weight: 1.2kg including battery Battery: 5,000mAh Lithium-Ion Battery Battery Life: 10 hours (RTK Rover)	

¹ The hardware of this product is designed for Beidou B3 compatibility (trial version) and its firmware will be enhanced to fully support such new signals as soon as the officially published signal interface control documentation (ICD) becomes available.
² There is no public GLONASS L3 CDMA or Galileo E6 ICD. The current capability in the receivers is based on publicly available information. As such, Trimble cannot guarantee that these receivers will be fully compatible.
³ Developed under a License of the European Union and the European Space Agency.



Headquarters: Datavägen 21B SE-436 32 Askim, Sweden info@satlab.com.se

Regional Offices:

Warsaw, Poland Jičín, Czech Republic Ankara, Turkey Scottsdale, USA Singapore Hong Kong, China Dubai, UAE

www.satlab.com.se



Note





The SL900 is a high-precision GNSS receiver that performs even under the most demanding conditions. With its features, the SL900 is capable of delivering highly accurate data in real-time to any devices via a Bluetooth connection. Compact and lightweight, this GNSS receiver is one of the most flexible solutions that promises positioning reliability.



Tilt compensation solution

With surveyors in mind, Satlab designed a solution to increase efficiency in your workflow by cutting down time wasted from offsetting slanted measurements. With the tilt compensator, the SL900 can save up to 20 percent of time compared to conventional surveying practices. This solution allows you to focus on your surroundings conveniently while ensuring your safety and comfort.



Applications

- Monitoring
- Mapping
- Land Survey
- Topography and As-built Landfill
- Hydrographic
- Agriculture
- Sensor
- UAV Base Station

Efficient and dependable

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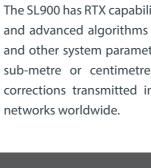
Powered by Trimble BD990 GNSS engine, this receiver offers precise positioning and advanced interference mitigation which performs even in the most remote or challenging environments. Using its 336 channel tracking capabilities, it can track all current and upcoming signals, offering sub-metre to centimetre precise positioning with different modes (RTK, PPK, Static).

Satellite correction service

TECHNICAL SUPPORT Satlab offers online resources and a professional support network available worldwide.







Most agile and intuitive GNSS RTK Rover



The SL900 has RTX capabilities that use a global network of multi-GNSS reference stations and advanced algorithms to generate highly precise GNSS satellite orbit, clock, biases, and other system parameters. These data allow RTX to provide correction services with sub-metre or centimetre-level positioning accuracy to SL900 receivers. Get your corrections transmitted in real-time, with minimal latency via satellites and cellular



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