SL900 GNSS Receiver

CNICC		
GNSS Signal Tracking	GPS: L1C/A, L1C, L1P, L2C, L2P, L5 BDS: B1I, B2I, B3I, B1C, B2a, B2b, GLONASS: G1, G2, G3 Galileo: E1, E5a, E5b, ALTBOC, E6 QZSS: L1C/A, L1C, L2C, L5, LEX NavIC (IRNSS) :L5 SBAS: Egnos, WAAS, GAGAN, MSAS, SDCM (L1, L5) L-band	
No. of Channels	800	GNSS Receiver
MEASUREMENT PERFORMA 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 Time to frist Fix Tilt Compensation	H:8 mm + 1 ppm RMS / V:15 mm + 2 ppm RMS H: 8 mm + 0.5 ppm RMS / V: 15 mm + 0.5 ppm RMS H:8 mm + 1 ppm RMS / V:15 mm + 1 ppm RMS H: 2.5 mm + 0.1 ppm RMS / V: 3.5 mm + 0.4 ppm RMS H:2.5mm+0.5ppm RMS / V:5 mm + 0.5 ppm RMS H: 25 cm RMS / V: 50 cm RMS H: 20 cm RMS / V:60 cm RMS DGPS/RTCM 2-10 s 99.9% Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s 4cm accuracy in the inclination of 30° (optional)	
COMMUNICATIONS Communication Ports	*Accuracy maybe subject to abnormality such as, magnetic field, multipath, obstruction, interference, satellite geometry and atmospheric conditions. Internal 4 G Mobile Network TDD-LTE/FDD-LTE/WCDMA/GPRS/GSM NTrip Enabled Bluetooth: V2.1 + EDR, NFC Wi-Fi: 2.4 G , 802.11 b/g/n	
SYSTEM Operation System Start-up Time Data Storage	Linux 3 s Circulating 8 GB Internal Storage; Supports 16 GB SD card	
DATA MANAGEMENT	1 Hz Update (up to 20 Hz) CMR, CMR+, RTCM2.X, RTCM3.0, RTCM3.2 GNS, Rinex	-1-
GENERAL Environmental	IP67 environmental protection Waterproof to 1m (3.28ft) depth Temporary Submersion Shock resistant body to 2 m (6.5ft) pole drop Temperature -40°C to 65°C Operating -40°C to 85°C Storage Shock and vibration: MIL-STD-810 G, 514.6	
Physical Properties	Size: 170 mm x 95 mm Weight: 1.2 kg including battery Battery: 5,000 mAh Lithium-Ion Battery Battery Life: 10 hours (RTK Rover)	
Note		
Hardware is ready		



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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 tilt survey technology, 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

TECHNICAL SUPPORT

Satlab offers online resources

and a professional support

network available worldwide.

Efficient and dependable

Powered by advanced engine, this receiver offers precise positioning and advanced interference mitigation which performs even in the most remote or challenging environments. Using its excellent 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

The SL900 has L-Band 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 L-Band 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 networks worldwide.





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Most agile and intuitive GNSS RTK Rover







