SL900 GNSS Receiver

555

Data Specifications

GNSS

Signal Tracking

GPS (L1C/A, L1C, L2C, L2P, L5)
GLONASS ¹ (L1C/A, L2C, L2P, L3, L5)
BeiDou ² (B1, B2, B3)
Galileo³ (E1, E5AltBOC, E5a, E5b, E6)
IRNSS (L5)
QZSS (L1C/A, L1C, L2C, L5, L6)
SBAS (L1, L5)
L-Band (Up to 5 Channels) TerraStar®

No. of Channels

MEASUREMENT PERFORMANCE

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

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%

COMMUNICATIONS

SYSTEM

Operation System

Start-up Time

Data Storage

GENERAL

Environmental

Physical Properties

Communication Ports

Internal 4G Mobile Network TDD-LTE/FDD-LTE/WCDMA/GPRS/GSM Bluetooth: V2.1 + EDR, NFC Wi-Fi: 2.4G , 802.11b/g/n USB, TNC antenna port, SIM card slot, TF card slot, DC power input (5-pin) Internal Radio: Satel radio for Tx/Rx⁴

SATLAB

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Linux 3s Circulating 16GB Internal Storage; Supports 32G SD card DATA MANAGEMENT 5 Hz Update (up to 100 Hz⁵) CMR, RTCM2.X, RTCM3.0, RTCM3.2 GNS, Rinex TerraStar® and RTK Assist Service 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

Size: 170mm x 95mm Weight: 1.2kg including battery Battery: 5,000mAh Lithium-Ion Battery Operation Time: 10 hours (RTK Rover)

¹ Hardware ready for L3 and L5 ² Designed for BeiDou phase 2 and 3, B1 and B2 compatibility. B3 conditionally supported and subject to change. ³ E1bc support only. Hardware ready for E6bc ⁴ Optional: Frequeny 865-867 MHZ, transmitting power 0.1w-1w adjustable

GNSS Receiver CE



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

TECHNICAL SUPPORT

Satlab offers online resources

and a professional support

network available worldwide.

Efficient and dependable

Powered by NovAtel OEM729 GNSS engine, this receiver offers precise positioning and advanced interference mitigation which performs even in the most remote or challenging environments. Using its 555 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

The SL900 has TerraStar 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 TerraStar 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.





Most agile and intuitive GNSS RTK Rover





