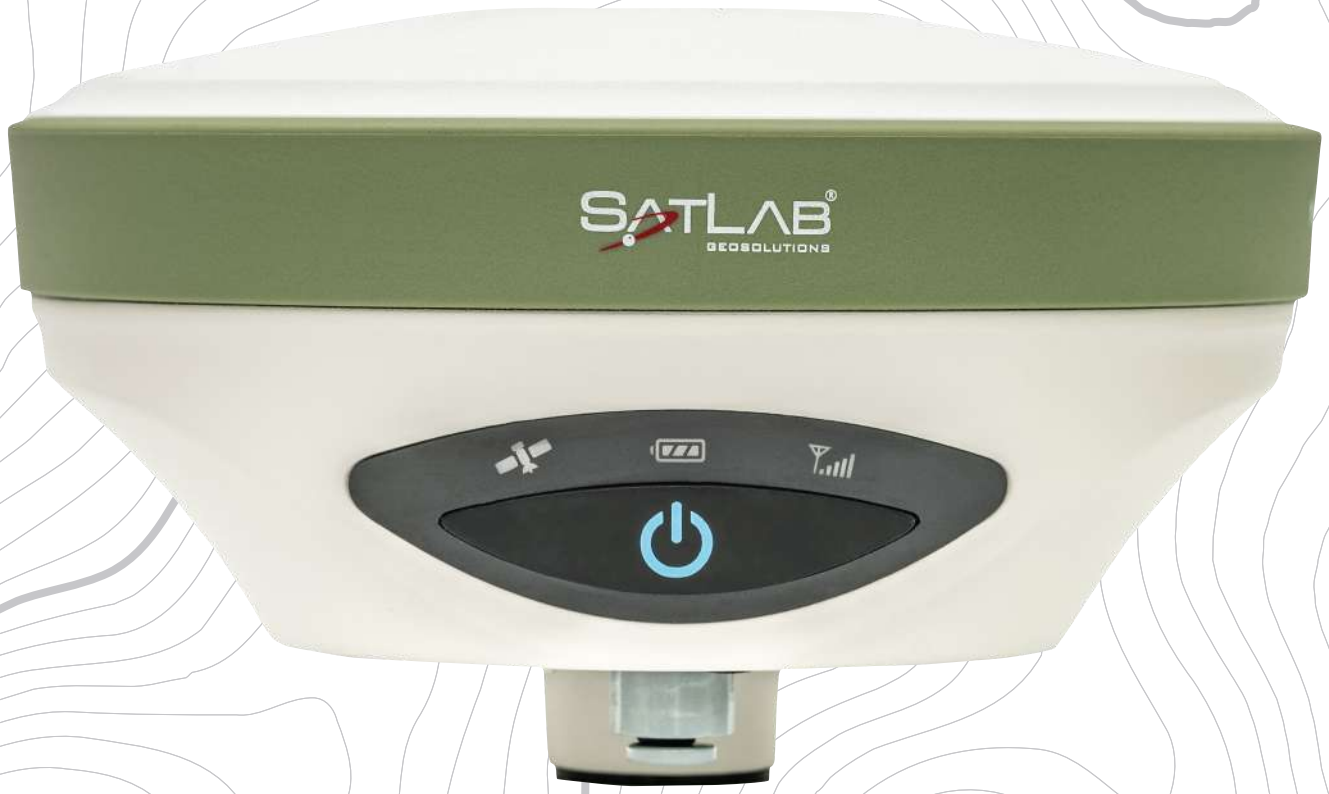
SATLAB GEOSOLUTIONS

SL900

GNSS Receiver



Building the Future with

Accuracy
& Precision

Designed and Engineered in Sweden

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.

Swedish Quality

Tilt Compensator

Multi-Constellation Tracking

Bluetooth

Long Battery Life (> 8 hours)

Windows Compatibility

Android Compatibility

iOS Compatibility

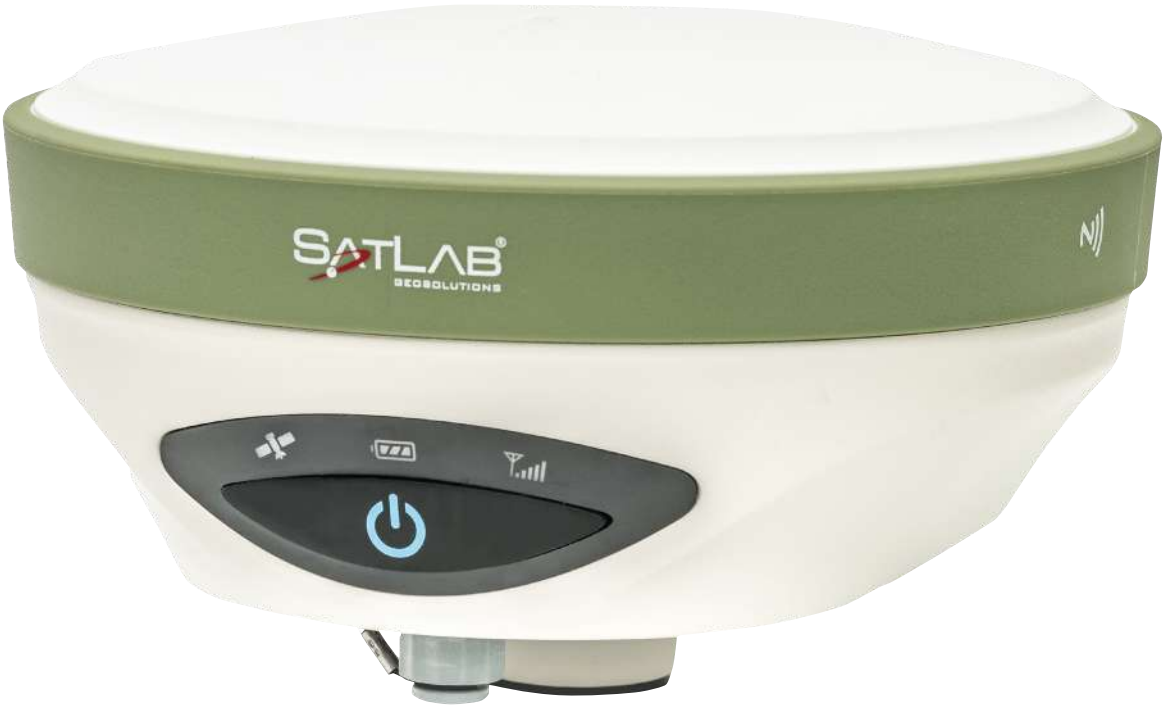
NFC Module

Internet RTK Technology

PPK Mode

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

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.

TECHNICAL SUPPORT

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

Multi-Constellation Tracking

NFC Technology

Data Collector

Cloud Services

Long Battery Life

Professional Support Network

SL900 GNSS Receiver

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) Galileo[3] (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	555

MEASUREMENT PERFORMANCE

Real-time Kinematic	H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS
Network RTK	H: 8mm + 0.5ppm RMS / V: 15mm + 0.5ppm RMS
High-precision Static	H: 2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS
Static and Fast Static	H: 2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS
DGPS Position Accuracy	H: 25cm RMS / V: 50cm RMS
SBAS Position Accuracy	H: 50cm RMS / V: 85cm RMS
Code Differential	DGPS/RTCM
Initializing Time	2-10s
Initializing Reliability	99.9%

COMMUNICATIONS

Communication Ports	Internal 3G Mobile Network UTMS/WCDMA/GPRS/GSM Bluetooth: V2.1 + EDR, NFC Wi-Fi: 2.4G , 802.11b/g/n Internal Radio: Satel radio for Tx/Rx

SYSTEM

Operation System	Linux
Start-up Time	3s
Data Storage	Circulating 16GB Internal Storage; Supports 32G SD card

DATA MANAGEMENT

5 Hz Update (up to 100 Hz[4])
CMR, RTCM2.X, RTCM3.0, RTCM3.2
GNS, Rinex
TerraStar® and RTK Assist Service

GENERAL

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

Note

[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

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