SL800 GNSS Receiver

Data Specifications

GNSS

SYSTEM

Operation System

DATA MANAGEMENT

Start-up Time

Data Storage

GENERAL

Environmental

Physical Properties

Signal Tracking

GPS (L1C/A, L1C, L2C, L2P, L5) GLONASS ¹ (L1C/A, L2C/A, L2P, L3, L5) BeiDou ² (B1, B2, B3) Galileo ³ (E1, E5 AltBOC, E5a, E5b, E6) IRNSS (L5) QZSS (L1C/A, L1C, L2C, L5, L6) SBAS L1, L5, (WAAS, EGNOS, MSAS, GAGAN)
SBAS L1, L5, (WAAS, EGNOS, MSAS, GAGAN) L-Band (Up to 5 Channels) TerraStar®

No. of Channels 555 MEASUREMENT PERFORMANCE H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS Real-time Kinematic H:8mm + 1ppm RMS / V:15mm + 1ppm RMS Post Processing Kinematic **High-Precision Static** H: 2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS H: 2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS Static and Fast Static H: 25cm RMS / V: 50cm RMS DGPS Position Accuracy SBAS Position Accuracy H: 50cm RMS / V: 85cm RMS Code Differential DGPS/RTCM Initializing Time <10s Initializing Reliability 99.9% COMMUNICATIONS **Communication Ports** USB and RS232 serial port Bluetooth 4.0, NFC DC External power input LED indicator panels

Linux

8GB internal storage

3s

SL8C **GNSS** Receiver



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VRS, FKP, MAC, intRTK Support NMEA and NovAtel ASCII Navigation Output 5 Hz Update (up to 100 Hz⁴) RTCM 2.1, 2.3, 3.0, 3.1, 3.2 CMR, RTCA and NOVATELX

IP67 environmental protection Waterproof to 2m (6.5ft) depth **Temporary Submersion** Shock resistant body to 2m (6.5ft) pole drop Temperature -40°C to 65°C Operating -40°C to 75°C Storage

Size: 127.5mm x 57mm Weight: 700g including battery Power: 6 – 28V DC Input Battery: 6300 mAh Li-Ion Battery Battery Life: 9 hours (Static Measurement / 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 Octional

SATLAB

QK.









Satlab SL800 offers the flexibility to choose between either NFC or Bluetooth devices to best meet your surveying needs. Powered by the multi-constellation, triple frequency, long-range Bluetooth and Satlab Cloud Services support, this is the most convenient and efficient receiver for today's network age.



The world's smallest GNSS receiver

The SL800 provides an easy solution for survey professionals who require a portable instrument to collect highly accurate data for various geospatial usage. Its portability feature allows user flexibility to easily collect data with just one receiver in the field connecting to CORS via any preferred devices to keep you focused and productive.



Applications

- 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 is able to track all current and upcoming signals, offering sub-metre to centimetre precise positioning.

Satellite correction service

The SL800 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 SL800 receivers. Get your corrections transmitted in real-time, with minimal latency via satellites and cellular networks worldwide.















