## SL800 GNSS Receiver

**Data Specifications** 

#### GNSS

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

555

#### No. of Channels

#### **MEASUREMENT PERFORMANCE**

Real-time Kinematic Post Processing Kinematic **High-Precision Static** Static and Fast Static **DGPS Position Accuracy** SBAS Position Accuracy **Code Differential** Initializing Time Initializing Reliability

#### **COMMUNICATIONS**

**Communication Ports** 

#### **SYSTEM**

Headquarters:

Datavägen 21B

**Regional Offices:** Warsaw, Poland Jičín, Czech Republic

Ankara, Turkey

Scottsdale, USA

Hong Kong, China

www.satlab.com.se

Singapore

Dubai, UAE

SE-436 32 Askim,Sweden info@satlab.com.se

**Operation System** Start-up Time Data Storage

Linux 3s 8GB internal storage

#### DATA MANAGEMENT

VRS, FKP, MAC, intRTK Support NMEA and NovAtel ASCII Navigation Output 5 Hz Update (up to 100 Hz<sup>4</sup>) RTCM 2.1, 2.3, 3.0, 3.1, 3.2 CMR, RTCA and NOVATELX

H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS

H:8mm + 1ppm RMS / V:15mm + 1ppm RMS

H: 25cm RMS / V: 50cm RMS

H: 50cm RMS / V: 85cm RMS

USB and RS232 serial port Bluetooth 4.0, NFC DC External power input LED indicator panels

DGPS/RTCM

<10s

99.9%

H: 2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS

H: 2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS

#### **GENERAL**

Environmental

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

**Physical Properties** 

#### 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)

<sup>1</sup> Hardware ready for L3 and L5 <sup>2</sup> Designed for BeiDou phase 2 and 3, B1 and B2 compatibility. B3 conditionally supported and subject to change. <sup>3</sup> E1 bc support only. Hardware ready for E6bc <sup>4</sup> Optional

# $\mathbb{B}$ **GNSS** Receiver









Made by Sweden

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.



SATLAB

#### Most agile and intuitive GNSS RTK Rover







