

# SLX1-NG Multi-application 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)  
 L-Band (up to 5 channels) TerraStar®  
 1 - 100Hz<sup>4</sup>

#### Positioning Output

No. of Channels 555

### HORIZONTAL POSITION ACCURACY (RMS)

Single Point L1 1.5m  
 Single Point L1/L2 1.2m  
 SBAS 0.6m  
 DGPS 0.4m  
 Real-time Kinematic  
 Static H: 8mm + 1ppm / V: 15mm + 1ppm  
 H: 2.5mm + 0.5ppm / V: 5mm + 0.5ppm  
 Initialization Time <10s  
 Initialization Reliability 99.9%

### SYSTEM

Internal Memory 64GB  
 External Memory 1TB  
 Interface 3 x RS232, USB, Bluetooth, Wi-Fi, 4G, Ethernet, PPS output, RS485/RS422 (optional)

### DATA MANAGEMENT

RTCM 2.1, 2.3, 3.0, 3.2  
 CMR, CMR+, RTCA, NovAtelx  
 Interactive web content management system  
 LCD, LED, key operating system

### GENERAL

#### Environmental

IP67 environmental protection  
 Shock resistant body to 1m (3.28ft) drop  
 Temperature -40°C to 75°C Operating  
 -40°C to 80°C Storage

#### Physical Properties

Size: 225mm x 138mm x 70mm  
 Weight: 2.48kg  
 Power: 7VDC ~ 36VDC (2-way)  
 Battery Life: 24h continuous operation  
 (depends on configuration)

#### Note

<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> E1bc support only. Hardware ready for E6bc  
<sup>4</sup> Optional



Headquarters:  
 Datavägen 21B  
 SE-436 32 Askim, Sweden  
 info@satlab.com.se

Regional Offices:  
 Warsaw, Poland  
 Jičín, Czech Republic  
 Ankara, Turkey  
 Scottsdale, USA  
 Singapore  
 Hong Kong, China  
 Dubai, UAE

[www.satlab.com.se](http://www.satlab.com.se)



# SLX1-NG

## Multi-application GNSS Receiver



Made by Sweden

The SLX1-NG multi-application GNSS receiver has a military grade environmental housing that features a built-in firewall and data encryption designed primarily for CORS applications. Using the world's latest multi-frequency technology, powered by NovAtel OEM729 GNSS engine, this receiver is capable of superior tracking of all constellations and signals as a reference station solution for accurate satellite readings.



### Delivering highly accurate and reliable data

Designed with simplicity, the SLX1-NG performs multiple tasks simultaneously to make your field work easier and more efficient. This receiver can continuously track and record all satellite data while allowing you to download recorded data, stream or transmit different forms of correction data.



### Applications

- Land Surveying
- Topography and As-built
- Utilities
- Infrastructure
- Deformation Monitoring Solutions
- Seismic Monitoring
- Hydrographic Application
- Reference 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 SLX1-NG 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 SLX1-NG receivers. Get your corrections transmitted in real-time, with minimal latency via satellites and cellular networks worldwide.

