

# SLX-1 Multi-application GNSS Receiver

## Data Specifications

### GNSS

#### Signal Tracking

GPS (L1C/A, L2E, L2C, L5)  
 BeiDou (B1, B2, B3<sup>1</sup>)  
 GLONASS (L1C/A, L1P, L2C/A, L3 CDMA<sup>2</sup>)  
 Galileo<sup>3</sup> (E1, E5A, E5B, E5AltBOC, E6<sup>2</sup>)  
 IRNSS (L5)  
 QZSS (L1 C/A, L2C, L5)  
 SBAS (L1C/A, L5 QZSS, WAAS, MSAS, GAGAN, EGNOS)  
 L-Band: OmniSTAR, Trimble RTX (optional)

No. of Channels 336

### HORIZONTAL POSITION ACCURACY (RMS)

Single Point L1 1.5m  
 Single Point L1/L2 1.2m  
 SBAS H: 50cm RMS / V: 85cm RMS  
 DGPS H: 25cm RMS / V: 50cm RMS  
 Real-time Kinematic H: 8mm + 1ppm / V: 15mm + 1ppm  
 Static H: 2.5mm + 0.5ppm / V: 5mm + 0.5ppm  
 Initialization Time 2-10s  
 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  
 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

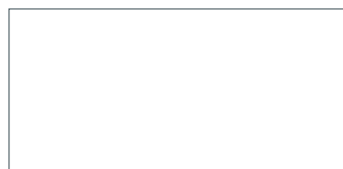
Size: 225mm x 138mm x 70mm  
 Weight: 2.48kg  
 Power: 7VDC ~ 36VDC (2-way)  
 Battery Life: 24h continuous operation (depends on configuration)

#### Note

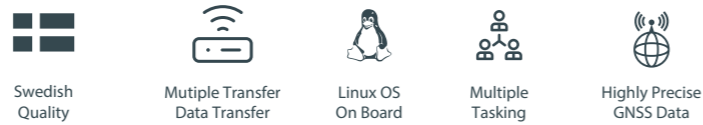
<sup>1</sup> Hardware ready for L3 and L5  
<sup>2</sup> Designed for BeiDou phase 2 and 3, B1 and B2 compatibility, B3 conditionally supported and subject to change.  
<sup>3</sup> E1bc support only, Hardware ready for E6bc  
<sup>4</sup> Optional

# SLX-1

## Multi-application GNSS Receiver

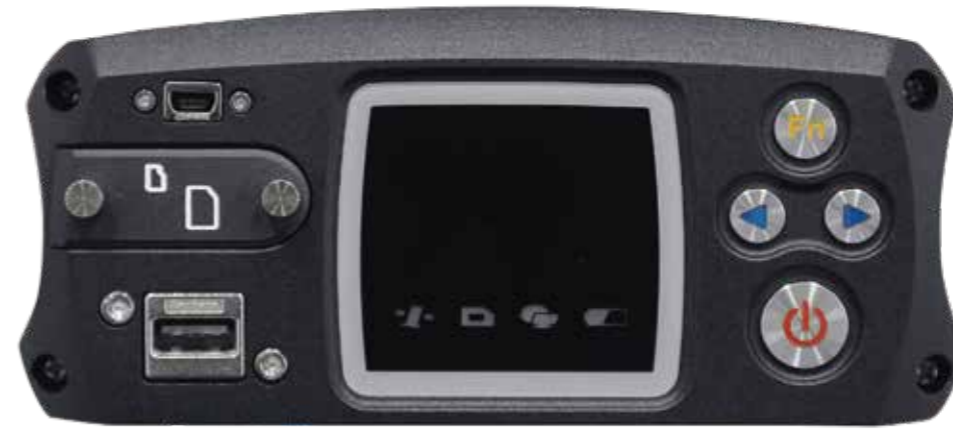


The SLX-1 multi-application GNSS receiver has a military grade environmental housing that features a built-in firewall and data encryption designed primarily for CORS applications. Using the world's latest multi-frequency technology, powered by Trimble BD990 GNSS engine, this receiver is capable of superior 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 SLX-1 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

### Efficient and dependable

Powered by Trimble BD990 GNSS engine, this receiver offers precise positioning and advanced interference mitigation which performs even in the most remote or challenging environments. Using its 336 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 SLX-1 has RTX 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 RTX to provide correction services with sub-metre or centimetre-level positioning accuracy to SLX-1 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.

