SLX-1 Multi-application GNSS Receiver

Data Specifications

GNSS **Signal Tracking**	GPS (L1 C/A, L2E, L2C, L5) GLONASS (L1 C/A, L2 C/A, L3 CDMA14) BeiDou (B1, B2, B313) Galileo (E1, E5A, E5B, E5 AltBOC, E614) IRNSS (L5) QZSS (L1 C/A, L1 SAIF, L2C, L5) SBAS (L1 C/A, L5) MSS L-Band (OmniSTAR, Trimble RTX)
Additonal Technologies	On module L-band B2B AIM+ unique anti-jamming and monitoring system against narrow and wideband interference IONO+ advanced scintillation mitigation APME+ a posteriori multipath estimator for code and phase multipath mitigation LOCK+ superior tracking robustness under heavy mechanical shocks or vibrations
No. of Channels	768

MEASUREMENT PERFORMANCE

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

EXTERNAL RADIO (optional)

**Frequency	Working Range** **Transmitting Power**	403MHz~473MHz 1- 4 W , Support HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc..

COMMUNICATIONS

	Internal 4 G Mobile Network TDD-LTE/FDD-LTE/WCDMA/GPRS/GSM NTRIP,HTTP,HTIP,FTP Enabled /CDMA
Communication Ports	Bluetooth: V2.1 + EDR, NFC
Operation	Web-client management via Ethernet, Wi-FI

SYSTEM

I/O Interface	3 X RS232 serial port, 2 X USB port, 1 X 485 port 1 X Ethernet port(RJ-45), 1 X WiFi Host(802.11b/g/n) 2 X SMA port(1 for PPS and 1 for 3G modem antenna) 2 X TNC port
Data Storage	Internal Memory 64GB + TF card/USB extension External Memory 1TB
User Interface	4 X physical buttons 4 X LED lamps, OLED display, 128 X 64 pixels

DATA MANAGEMENT

	20 Hz Update (up to 50 Hz) CMR, CMR+,CRMx, RTCM2.X, RTCM3.0, RTCM3.2,NovAtelx GNS, Rinex 2.11, Rinex 3.02, Rinex 3.04, RTCM3.1, NMEA Output Binex, Rinex 4, Hatanaka (Optional) Support FTP protocol, HTTP HTTPS and SFTP (Optional) Support simultaneous recording Support TLS secure connection in RTCM3.X, between the receiver and ntripcaster

GENERAL

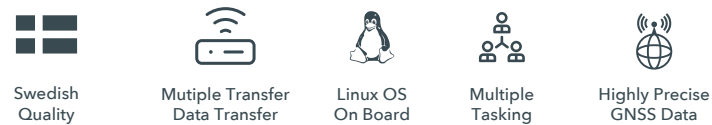|	
Environmental	IP67 environmental protection Waterproof to 1m (3.28ft) dept Temporary Submersion Humidity: 100% Shock resistant body to 2 m (6.5ft) pole drop
Temperature	-40°C to 75°C Operating -40°C to 80°C Storage
Physical Properties	Shock and vibration: MIL-STD-810G -Method510.5 -Procedure I Vibration:MIL-STD-810G-Method Figure514.6C-1and Table 514.6C-II Immersion:MIL-STD-810G,Method 512.5-ProcedureI Size: 225mm x 138mm x 70mm Weight: 2.48kg Battery: Internal 12500mAh lithium battery(Solar and Electric Main) Battery Life: 24h continuous operation(depends on configuration

SLX-1
## Multi-application GNSS Receiver

ISO 9001   CE

Made by Sweden

21A217

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 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.

Swedish Quality	Mutiple Transfer Data Transfer	Linux OS On Board	Multiple Tasking	Highly Precise GNSS Data

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.
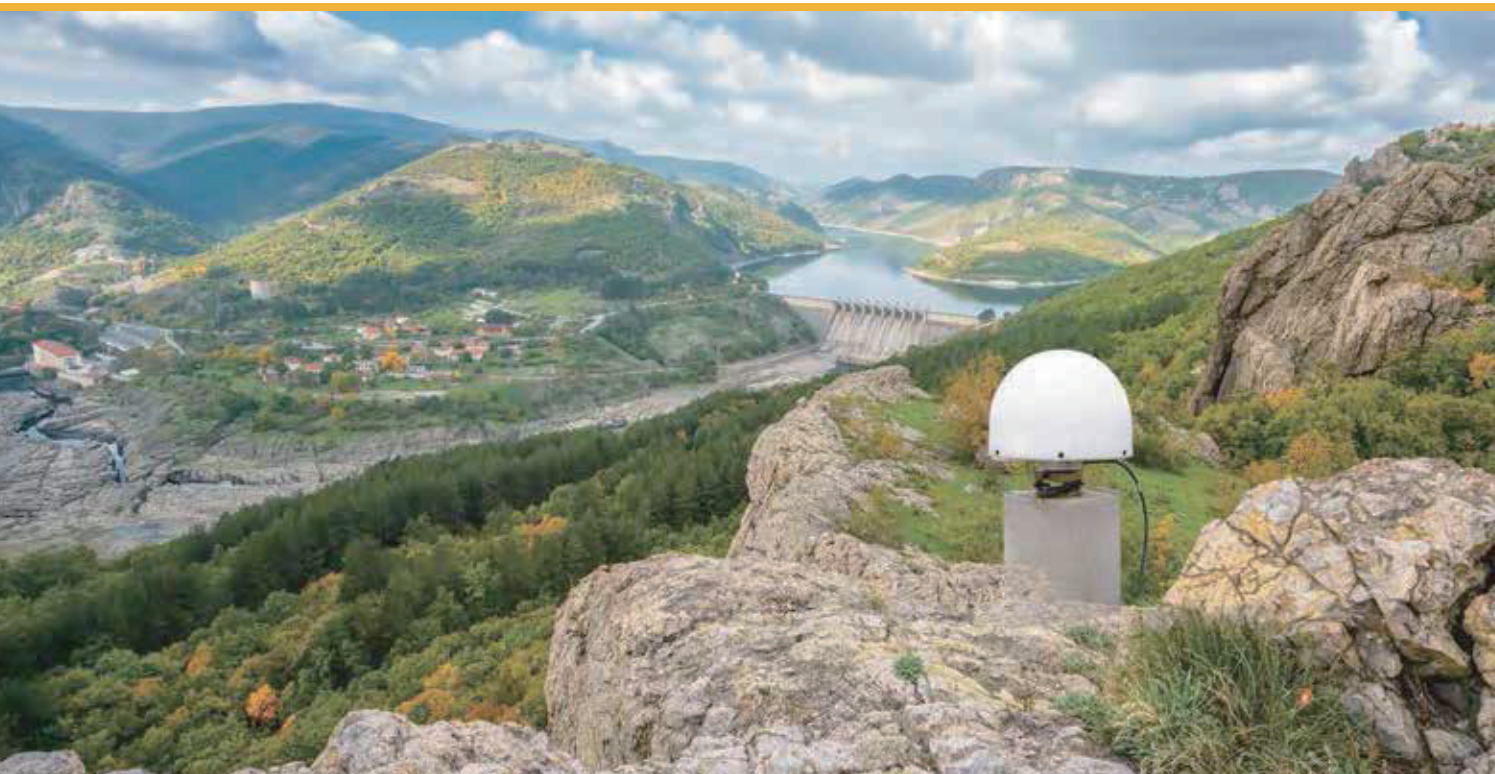
Applications

- • Land Surveying
- • Topography and As-built
- • Utilities
- • Infrastructure
- • Deformation Monitoring Solutions
- • Seismic Monitoring
- • Hydrographic Application
- • Reference Station

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 SLX-1 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 SLX-1 receivers. Get your corrections transmitted in real-time, with minimal latency via satellites and cellular networks worldwide.

Multi-Constellation Tracking	Multiple Applications	64GB Internal Memory	4G Modem	Long Battery Life	Professional Support Network