SLX-1Multi-application GNSS Receiver

Data Specifications

GNSS	
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,L1 SAIF,L1S3, L2C, L5, L6) SBAS: WAAS,EGNOS,GAGAN,MSAS,L1C/A,L5 L-band (up to 5 channels) TerraStar®
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	555
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	403MHz~473MHz
Transmitting Power	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 /CDMA NTRIP,HTTP,HTIP,FTP Enabled
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 100 Hz) CMR, CMR+,CRMx, RTCM2.X, RTCM3.0, RTCM3.2,NovAtelx GNS, Rinex,RTCM3.1,NMEA Output
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

SATLAB GEOSOLUTIONS

Headquarters:
Jarnbrotts Prastvag 2,
421 47 Västra Frölunda,
Göteborg, 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

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SATLAB GEOSOLUTIONS

SLX-1

Multi-application GNSS Receiver

Made by Sweden

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

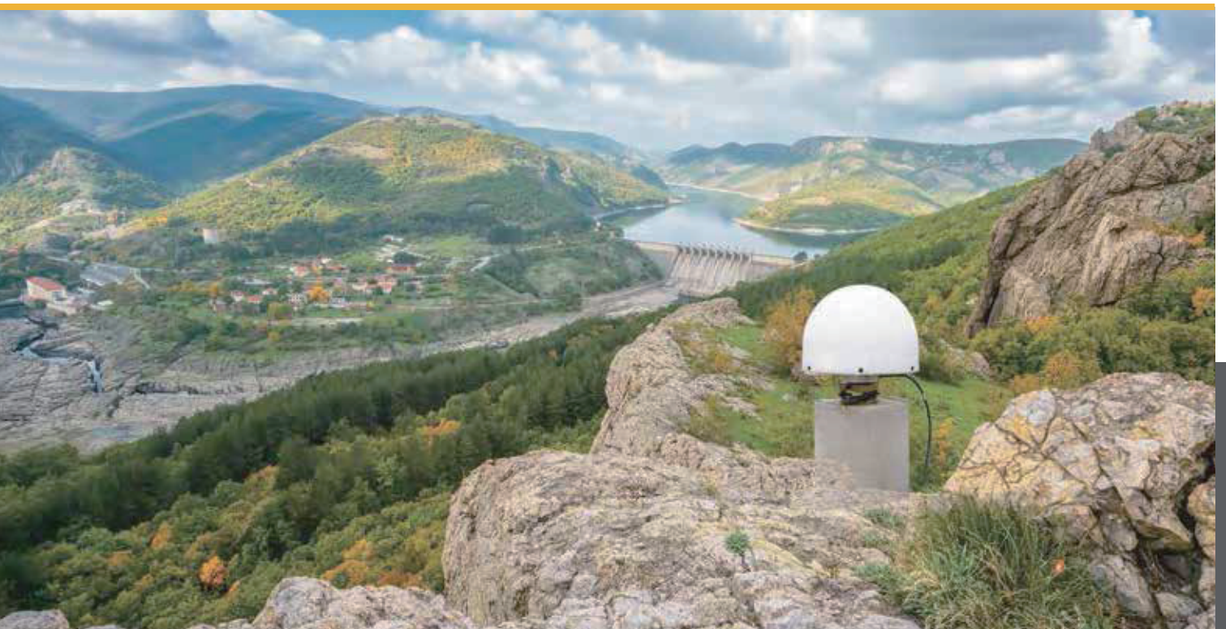
Linux OS On Board

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**

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 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