SLC Multi-purpose 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, L2C, L5, L6)
	SBAS (L1, L5)
	L-Band (up to 5 channels) TerraStar®
Positioning Output	1 - 100Hz[4]

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
RTK	1cm + 1ppm
Initialization Time	<10s
Initialization Reliability	99.9%

MEASUREMENT PRECISION (RMS)

	GPS	GLONASS
L1 Carrier Phase	0.5mm	1mm
L2 Carrier Phase	1mm	1mm
L2C Carrier Phase	1mm	1mm

SYSTEM

Internal Memory	32GB
Interface	USB, RF (External GNSS Antenna), RS232, Integrated 3.5G

DATA MANAGEMENT

NTRIP, intRTK Support
NMEA 0183, NovAtel ASCII and Binary Logs
RTCM 2.1, 2.3, 3.0, 3.1, 3.2
CMR, CMR+, and RTCA
Raw data recording for post processing
Field upgradable software
Differential GPS positioning

GENERAL

Environmental	IP67 environmental protection
	Temperature -10°C to 50°C Operating
	-20°C to 65°C Storage

Physical Properties	Size: 250mm x 95mm x 30mm
	Weight: 620g
	Power: Mini USB Charging (power bank compatible)
	Battery Life: 8 - 12 hours

Note

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

19M126

SLC
Multi-purpose GNSS Receiver

ISO 9001 CE

Made by Sweden

The SLC multi-purpose GNSS receiver is a surveying grade equipment armed with an industrial modem to access wireless network and a one-button operation for easy usage. Attach your tablet on the mounting plates available and connect it to the 3.5G modem with RTK corrections for cm accuracy. The USB/RS232 serial connection also allows for external power, UHF radio connection or wired connection to the display.

Swedish Quality	Bluetooth	Windows Compatibility	Android Compatibility	iOS Compatibility	Internal 3.5G GSM Modem	Internet RTK Technology

Highly precise multi-purpose solution

Featuring a convenient internal full constellation dual frequency tracking antenna, the SLC multi-purpose GNSS receiver is capable of obtaining accurate data for any type of applications in the field. Any software running on Windows, Android or iOS accepting GNSS position over a serial port can be used, making the SLC a high precision positioning solution to virtually an unlimited number of applications.

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 OEM719 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 can track all current and upcoming signals, offering sub-metre to centimetre precise positioning.

Satellite correction service

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

NFC Technology	Antenna Options	Multi-Constellation Tracking	Long Battery Life	Professional Support Network