SL700 GNSS Receiver

Data Specifications

GNSS	
Signal Tracking	GPS (L1C/A, L1C, L2C, L2P, L5) GLONASS[1] (L1C/A, L2C, 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®
No. of Channels	555
MEASUREMENT PERFORMANCE	
Real-time Kinematic	H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS
Network RTK	H: 8mm + 0.5ppm RMS / V: 15mm + 0.5ppm RMS
Post Processing Kinematic	H:8mm + 1ppm RMS / V:15mm + 1ppm RMS
High-precision Static	H: 2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS
Static and Fast Static	H: 2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS
DGPS Position Accuracy	H: 25cm RMS / V: 50cm RMS
SBAS Position Accuracy	H: 50cm RMS / V: 85cm RMS
Code Differential	DGPS/RTCM
Initializing Time	<10s
Initializing Reliability	99.9%
COMMUNICATIONS	
Communication Ports	Internal 4G Mobile Network TDD-LTE/FDD-LTE/WCDMA/GPRS/GSM Bluetooth V2.1 + EDR, NFC Internal Radio: Satel Radio for Tx/Rx
SYSTEM	
Operation System	Linux
Start-up Time	3s
Data Storage	8GB internal storage
DATA MANAGEMENT	
	5 Hz Update (up to 100 Hz[4]) CMR, RTCM2.X, RTCM3.0, RTCM3.2 GNS, Rinex TerraStar® and RTK Assist Service
GENERAL	
Environmental	IP67 environmental protection Waterproof to 1m (3.28ft) depth Temporary Submersion Shock resistant body to 2m (6.5ft) pole drop Temperature -40°C to 65°C Operating -40°C to 85°C Storage
Physical Properties	Size: 164mm x 83.5mm Weight: 1.4kg including battery Battery: 5,000mAh Lithium-Ion Battery Battery Life: 10 hours (Static Measurement / RTK Rover)

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

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SATLAB GEOSOLUTIONS

SL700
GNSS Receiver

Made by Sweden

Satlab SL700 is an easy-to-use device that is designed to be compact and rugged for your everyday surveying usage. Made to withstand the harshest weather conditions, the SL700 performs with great mobility and flexibility. This innovative receiver delivers the most accurate results in the most efficient way for your fieldwork.

Swedish Quality | Multi-Constellation Tracking | Bluetooth | Long Battery Life (> 8 hours) | Windows Compatibility | Android Compatibility | iOS Compatibility | NFC Module | Internet RTK Technology | PPK Mode

New and improved innovation technology

Powered by multi-constellation tracking, SL700 offers accurate and precise results with improved performance. Armed with a NovAtel OEM729 GNSS engine, this GNSS receiver features a multi-device interface depending on your application which boosts your productivity and efficiency.

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 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 can track all current and upcoming signals, offering sub-metre to centimetre precise positioning with different modes (RTK, PPK, Static).

Satellite correction service

The SL700 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 SL700 receivers. Get your corrections transmitted in real-time, with minimal latency via satellites and cellular networks worldwide.

Multi-Constellation Tracking | NFC Technology | Data Collector | Long Battery Life | Professional Support Network