SL700 GNSS Receiver

Data Specifications

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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	GNSS Receiver
MEASUREMENT PERFORMANCE Real-time Kinematic Network RTK High-precision Static Static and Fast Static DGPS Position Accuracy SBAS Position Accuracy Code Differential Initializing Time Initializing Reliability	H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS H: 8mm + 0.5ppm RMS / V: 15mm + 0.5ppm RMS H: 2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS H: 2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS H: 25cm RMS / V: 50cm RMS H: 50cm RMS / V: 85cm RMS DGPS/RTCM <10s 99.9%	
COMMUNICATIONS Communication Ports	UTMS/WCDMA/GPRS/GSM Internal 3G Mobile Network Bluetooth V2.1 + EDR, NFC Internal Radio: Satel Radio for Tx/Rx	
SYSTEM Operation System Start-up Time Data Storage	Linux 3s 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	S.
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)	



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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





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.



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.

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.





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