

SATLAB[®]
GEOSOLUTIONS

SL600
6G GNSS Receiver



www.satlabgps.com

SL600 6G GNSS Receiver

The Ultimate On The Pole GNSS System With 6G Tracking



European
Standards



Lightweight



Bluetooth



GPS
GLONASS
BEIDOU
GALILEO
SBAS
QZSS



6G GNSS
Chip



Long Life
Battery



2 Watt
Digital UHF



Linux OS
On Board

All in one, on the pole GNSS Receiver Intelligent System

Satlab SL600 is built on a LINUX based operating system which controls all hardware and communications for an error free and easy to support solution. Just listen to Satlab SL600, it's voice prompts will advise you of any issues together with a solution. It always remembers what it has performed before. Once you set up its operating parameters, forget about setting up again. Power up the receiver and its is ready to measure!

Satellite Tracking Technologies

Satlab SL600 utilizes the latest in GNSS technology; 6G! The unit is capable of tracking 6 different satellite constellations, namely GPS, GLONASS, BeiDou, GALILEO, QZSS and SBAS.



New Features

Satlab SL600 new features; Automatic base station setup from a list of pre-defined coordinates without controller, Base/Rover RTK over internet, Direct Rinex recording, Voice in your local language, Remote internet access to the receiver and Remote logged data downloads.



Corrections Format Support

Satlab SL600 is capable of processing all standardized corrections formats from local sources to national CORS networks in both single base and network modes.

Working Modes

Static, VRS RTK, UHF RTK, all surveying modes are available to meet any type of surveying application. A multiband GSM modem covers all type of data services available in the world, making sure that Satlab SL600 can connect to any NTRIP Network. Moreover, the 2W internal UHF modem is compatible to work with any standardized radio protocol, ensuring your Satlab SL600 will work with any available base or rover station.



Unlimited Storage

In addition to its 1GB of internal memory, SL600 is equipped with a micro SD card slot for large files like long static observations in high precision applications.

Exceptional Battery Life

Satlab SL600 is equipped with two high capacity hot-swappable Li-Ion battery packs. Together they provide up to 24 hours of uninterrupted operation for continuous field work, without worrying about charging batteries.



Durable Housing

Proven plastic alloy technology XENYOY® delivers maximum protection against harsh environmental conditions. It never fails in extreme field conditions. Very high or very low temperatures, impacts, heavy rains are no more problems.



SL600

6G GNSS Receiver Technical Specifications

■ Signal Tracking

- 220 Channels
- GPS : L1 C/A, L2E, L2C
- GLONASS : L1 C/A, L1 P, L2 C/A, L2 P
- BEIDOU : B1, B2
- GALILEO : L1 BOC, E5B
- QZSS : L1 C/A, L1 SAIF, L2C
- SBAS : L1 C/A, (WAAS-EGNOS-MSAS-GAGAN)

■ Data Management

- 10 Hz Update (up to 50 Hz)
- sCMRx, CMR, CMR+, RTCM SC104 2.x, 3.x
- VRS, FKP, MAC Support
- NMEA Output
- 1 GB Internal Memory
- microSD External Memory Recording
- RINEX Data Logging

■ I/O Interface

- 2 x RS232 Serial Port
- 2 x DC External Power Input
- 1 x USB
- 1 x Bluetooth, >50 m Range
- 1 x microSD Card Slot
- 1 x SIM Card Slot
- 1 x Speaker
- 3 Push Button Control Panel
- 3 LED Indicator Panel

■ Communications

- Internal 3.5G UMTS/HSDPA GSM Modem
- Internal Dijital UHF Modem Options
 - ADLF1 : 2 Watts, SATLAB Protocol
 - XDL : 2 Watts, Trimtalk, Satel, TrimMark, Transparent Protocol

■ Power

- DC 6-28 V Input
- Dual Battery Compartment
- 10.000 mAh Hot-Swap Li-Ion Battery
- Battery Life
 - 24 Hours Static Measurement
 - 18 Hours RTK Rover
 - 15 Hours RTK Base

■ Accuracy

- RTK : Horizontal 8 mm + 1 ppm, Vertical 15 mm + 1 ppm
- PP : Horizontal 2.5 mm + 1 ppm, Vertical 5 mm + 1 ppm
- RTK Init : < 10 sn
- Confidence Level : %99.9

■ Environmental

- IP67 Enritonmental Protection
- Waterproof to 2 m Dept
- Shock Resistant Body to 3 m Drop
- Operating Temperature : - 45 °C to 65 °C
- Storage Tempearture : - 55 °C to 85 °C

■ Physical Properties

- XENYO 5220U Housing
- Size : 182 mm x 92 mm
- Weight : 1.2 kg

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