



SL800  
GNSS Receiver



# SL800 GNSS Receiver

Multi-Constellation  
Triple Frequency Tracking



European  
Standards



Lightweight



Bluetooth



GPS  
GLONASS  
BEIDOU  
GALILEO  
SBAS  
QZSS



Long Life  
Battery



Internet  
RTK  
Technology



NFC  
Module



Cloud  
Services

## Rugged and Compact, Network RTK

The SL800 is a compact, lightweight and intelligent GNSS RTK Receiver. Powered by the multi-constellation, triple frequency Novatel OEM 729 board, 4.0 standard dual-mode long-range Bluetooth and NFC module, 'Data Collector Internet' and SatLab Cloud Services support, make this a convenient and efficient receiver for the network age.

## Multi-Constellation Triple Frequency Tracking

555 channels Supports GPS, GLONASS, GALILEO, BDS, QZSS, SBAS. NGS approved GNSS antenna.



GPS - GLONASS  
BEIDOU - GALILEO  
SBAS - QZSS



NFC  
Technology

## Convenient Connection

Bluetooth can be connected in seconds based on NFC technology 4.0 standard dual-mode long-range Bluetooth, compatible with 2.1 standard Bluetooth

## Powerful Battery

Powered by a high-capacity (6300mAh) Li-ion battery  
Supports power bank charge.



Long Life  
Battery



Data  
Collector

## Wide Range of Applications

SL800 can be paired with a variety of handheld data collectors to provides an easy-to-use solution for Survey and GIS professionals who need to collect highly accurate data.



### Signal Tracking

- 555 Channels
- GPS: L1 C/A, L1C, L2C, L2P, LP
- GLONASS: L1 C/A, L2C, L2P, L3, L5
- BEIDOU: B1, B2, B3
- GALILEO: E1, E5 AltBOC, E5e, E5b, E6
- IRNSS: L5
- QZSS: L1 C/A, L1C, L2C, L5, L6
- SBAS: L1 C/A, (WAAS-EGNOS-MSAS-GAGAN)
- L-Band: Up to 5 channels



### Data Management

- 5 Hz Update (up to 100 Hz)
- RTCM 2.1, 2.3, 3.0, 3.1, 3.2, CMR, CMR+, RTCA and NOVATELX
- VRS, FKP, MAC, intRTK Support
- NMEA and Novatel ASCII Navigation Output
- 8 GB Internal Memory



### I/O Interface

- 1 x RS232 Serial Port
- 1 x DC External Power Input
- 1 x USB
- 1 x NFC
- 1 x Bluetooth 4.0
- 3 LED Indicator Panel



### Power

- 6-28V DC Input
- 6.300 mAh Li-Ion Battery
- Battery Life
  - 9 Hours Static Measurement
  - 9 Hours RTK Rover



### Accuracy

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



### Environmental

- IP67 Environmental Protection
- Waterproof to 2 m Dept
- Temporary Submersion
- Shock Resistant Body to 2m Pole Drop
- Operating Temperature: -40°C to +65°C
- Storage Temperature: -40°C to +75°C



### Physical Properties

- Magnesium Alloy
- Size: 127.5 mm x 57 mm
- Weight: 700 g (including battery)



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