SEIRROWONLABS

Impulse GNSS Receiver

A complete, rugged GNSS position solution for agriculture, Construction and Mining



The Impulse receiver offers a robust position solution, designed as a drop-in replacement to many legacy GPS and GNSS receivers

No need to upgrade an old receiver when you can get a completely unlocked to RTK performance.

Fully Unlocked!

No nickel and diming here! All SL receivers are fully unlocked out of the box and ready for RTK and PPP.

PPP - FLAT EARTH NTRIP

NTRIP positioning solution. Sub 1.25” (3cm) precision without the need for a base station or tower network. Works anywhere in the US, EU or Australia. Load and Go allows you to purchase monthly subscriptions directly from the receiver with your phone or tablet. No more calling the dealer then waiting on activation.

Advanced User Interface

Built in Web pages allows set up with any WIFI device (phone, tablet, or PC). No cable or set up software required. Presets allow quick, automatic configuration of new receivers when replacing older ones.

Remote Support

Via WIFI, the SL Receiver can send its settings directly to Seirrowon secured server allowing a replacement unit to be pre-configured before shipment. Remote diagnostics also allow for fast diagnosis of issues.

B.Y.O. Cell Connection

You know the best Cell provider in your area. Why be forced to use a different carrier? Either use your phone as a hot spot or use a rugged hot spot solution for RTK or NTRIP connections.

Ruggedized, Low-Profile Design

The SL series receivers are designed with a patented antenna design to keep its profile very low(less than 2 inches).



Seirrowon Labs GNSS Offering

	Impulse	SL Pro	SL Pro 2
GNSS Output Rate	20Hz	20Hz	20Hz
GPS L1, L2C,L5	✔	✔	✔
GLONASS G1, G2	✔	✔	✔
Galileo E1, E5a, E5b,E6	✔	✔	✔
Beidou B1, B2, B3	✔	✔	✔
QZSS L1, L2C, L5	✔	✔	✔
L-band PPP		✔	✔
PPP over IP	✔	✔	✔
Sensor Fusion			
Basic		✔	
Advanced			✔
Remote Backup	✔	✔	✔
Remote Support	✔	✔	✔
Simulated Speed	✔	✔	✔
PPS	✔	✔	✔
WIFI	✔	✔	✔
NMEA 2000	✔	✔	✔
Simple User Interface	✔	✔	✔
NTRIP Client	✔	✔	✔



Receiver Specifications

Signals	1040 Channel
GPS	L1 C/A, L2C, L5
Beidou	B1, B2, B3
GLONASS	G1, G2
Galileo	E1, E5a, E5b, E6
QZSS	L1 C/A, L2C, L5
NavIC	L5

Accuracy	**Static**	**P2P**[1]
Stand Alone	5ft (1.5m)	12in (30cm)
SBAS	3.3ft (1m)	8in (20cm)
HAS	8 in (20cm)	1 in (2.5cm)
PPP	1½ in (3cm)	1in (2.5cm)
RTK	0.4 in (1cm)	0.4 in (1cm)
Tilt[3]	+/- 1in (2cm) at 6.7ft (2m) High	

Output Rate	20 Hz Max
TTFF[2]	< 25s
Correction Types	RTCM3.x, and PPP
Connectivity	2 x Serial ports Wi-Fi 802.11 b/g/n CAN - NMEA2000 PPS or Simulated Speed
User Interface	Web UI/ Serial Commands
LEDs	Power, GNSS, Correction, and Wi-Fi/Bluetooth

Updates	Via Internet
Support	User-enabled Support Backup and Historical Diagnostic Information

Operating Characteristics

Temperature	
Operation	-22°F (-30C) – 185°F (85C)
Storage	-40°F (-40C) - 195°F (90C)
Power	< 1.8W
IP Rating	IP67
Humidity	100%
Electrical	9 – 36VDC
Dimensions	7.5in. x 5in. x 1.5in. (19cm x 13cm x 4cm)

Connectors

Connector 1	DTM – A Key 12 pin
Connector 2	DTM – B Key 12 pin

Mounting

Magnetic	40 lbs. (18kg) force
Screw Option	3 x M3 Screws + 2 M4 Screws

Other Features

NTRIP Client Built-in
PPP over IP Client Built-in

1. P2P Referred to as Pass to Pass. The drift in position over a 15 minute period while in motion
2. TTFF Time to First Fix from a cold start.
3. Basic Tilt Compensation

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