

S800 GNSS



- ✓ RTK-Genauigkeit, fixed (Initialisierung <10s)
+/- 8mm horizontal, +/- 15mm vertikal
- ✓ NovAtel GNSS-Board 555 Kanäle L1/L2 mit
GPS, GLONASS, GALILEO, COMPASS, SBAS, IRNSS
- ✓ 6800 mAh Batteriekapazität, WEB-Interface, LR Bluetooth,
integriertes UHF-Funkmodul
- ✓ Rugged RTK IP67, 2 Jahre Herstellergarantie

STONEX S800

Kompakter GNSS-Empfänger, ausgestattet mit einem fortschrittlichen 555-Kanal GNSS-Board

werden alle verfügbaren Satellitensignale ohne Zusatzkosten für den professionellen Einsatz empfangen.

GNSS DER NÄCHSTEN GENERATION.

TECHNICAL FEATURES

RECEIVER

Channels	555
Satellite tracked	GPS: L1 C/A, L1C, L2C, L2P, L5 GLONASS: L1 C/A, L2C, L2P, L3, L5 SBAS: L1, L5 GALILEO: E1, E5A, E5B (reserved) BEIDOU 2/COMPASS: B1, B2, B3 IRNSS: L5
Position Rate	5 Hz
Signal Reacquisition	< 1 sec
RTK Signal Initialization	Typically < 10 s
Hot Start	Typically < 15 s
Initialization Reliability	> 99.9 %
Internal Memory	8 GB

POSITIONING¹

HIGH PRECISION STATIC SURVEYING (Long Time Observations)	
Horizontal	(2.5 mm + 1 ppm) RMS
Vertical	(5.0 mm + 1 ppm) RMS
CODE DIFFERENTIAL POSITIONING	
Horizontal	< 0.5 m RMS
Vertical	< 1.0 m RMS
SBAS POSITIONING (Typical)	
Horizontal	< 0.6 m RMS ²
Vertical	< 1.2 m RMS ²
REAL TIME KINEMATIC (< 30 Km) - NETWORK SURVEYING ³	
Fixed RTK Horizontal	(8 mm + 1 ppm) RMS
Fixed RTK Vertical	(15 mm + 1 ppm) RMS
INCLINED POSITIONING (2M POLE)	
10° inclination	20mm RMS
20° inclination	30mm RMS
30° inclination	50mm RMS

INTEGRATED GNSS ANTENNA

High accuracy four constellation micro-strip antenna, zero-phase center, with internal multipath suppressive board

INTERNAL RADIO

Type	Tx - Rx
Frequency Range	410 - 470 MHz
Channel Spacing	12.5 KHz / 25 KHz
Maximum Range	3-4 Km in urban environment Up to 10 km with optimal conditions ⁴

COMMUNICATION

Connectors I/O	7-pins Lemo and 5-pins Lemo interfaces. Multifunction cable with USB interface for PC connection
Bluetooth device	V2.0 Class2/V4.1LE
Wi-Fi	IEEE 802.11 b/g
Web UI	To upgrade the software, manage the status and settings, data download, etc. via smart phone, tablet or other internet enabled electronic device
Reference outputs	CMR, CMR+, RTCA, RTCM2.1, RTCM2.3, RTCM3.0, RTCM3.1, RTCM3.2
Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL

POWER SUPPLY

Battery	Rechargeable 7.2 V - 6800 mAh Rechargeable 7.2 V - 5200 mAh ⁵
Voltage	9 to 22 V DC external power input with over-voltage protection (5 pins Lemo)
Working time	10 hours 8 hours ⁵
Working time in GSM RTK with cable connection (GPS+GLONASS)	6.5 hours
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	146 mm x 146 mm x 76 mm
Weight	1.2 kg
Operating Temperature	-30°C to 65°C (-22°F to 149°F) -40°C to 65°C (-40°F to 149°F) ⁵
Storage Temperature	-40°C to 80°C (-40°F to 176°F) ⁵
Waterproof/Dustproof	IP67. Protected from temporary immersion to depth of 1 meter and from 100% humidity
Shock Resistance	Designed to endure to a 2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant

Illustrations, descriptions and technical specifications are not binding and may change

Specifications are subject to change without notice.

1. Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions. In static mode they are subject even to occupation times: the longer is the Baseline, the longer must be the occupation time.
2. Depends on SBAS system performance.
3. Network RTK precision depends on the network performances and are referenced to the closest physical base station.
4. Varies with the operating environment and with electromagnetic pollution.
5. S800 Polar Version



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