STONEX

SC100
C.O.R.S. STATION

The STONEX SC100 C.O.R.S. (Continuosly Operating Reference Station) is a multi-frequency GNSS receiver designed for use as a stand-alone reference station or as part of a GNSS infrastructure solution.

STONEX SC100 is typically used as an NTRIP server, and is the perfect equipment for many different jobs, based on the acquisition, the processing, the distribution and the management of GNSS correction data.

STONEX SC100 is designed in rugged and lightweight way and can be supplied from both DC Battery and AC Network to support temporary GPS network (i.e. construction sites), managing many NTRIP connected rovers.

STONEX SC100 works seamlessly with the STONEX software NTRIP CASTER and is fullycompatible with most of the worldwide known GPS network software; thus, SC100 can be used both for starting a new network infrastructure or for an integration into existing networks.

KEY FEATURES

RELIABLE
Proven STONEX GNSS technology

POWERFUL
Top-level performances at budget price

INTEGRABLE
Several software solutions depending on customer's request

STONEX

GNSS Tracking Features	
GPS	Simultaneous L1 C/A, L2E, L2C, L5
GLONASS	Simultaneous L1 C/A, L1 P, L2 C/A (GLONASS M Only), L2 P
SBAS[1]	Simultaneous L1 C/A, L5
GIOVE-A[2]	Simultaneous L1 BOC, E5A, E5B, E5AltBOC
GIOVE-B[2]	Simultaneous L1 CBOC, E5A, E5B, E5AltBOC
GALILEO[3]	Compliant
COMPASS	B1 (QPSK), B1- MBOC (6,1, 1/11), B1-2 (QPSK), B2 (QPSK), B2-BOC (10,5)
Very low noise GNSS carrier phase measurements with <1 mm precision in a 1 Hz bandwidth	
Channels	220
Initialization time[4]	Typically, less than 10 seconds
Initialization reliability[4]	Typically >99.9%
Accuracy	
Static Vertical Accuracy	3mm ± 0.5ppm (RMS)
Static Horizontal Accuracy	2mm ± 0.3ppm (RMS)
Environmental	
Working temperature	-30℃ to +65℃
Humidity	0% – 100%
Interface	
3 LED indicators	
Output	
1 USB port	
1 LAN Ethernet port	
Network Protocols supported: HTTP (web GUI), NMEA, GSOF, CMR etc over TCP/IP or UDP, NTripServer	
2 x RS232 ports (one full function, one 3-pin)	
1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 & 50 Hz positioning outputs	
Up to 50 Hz raw measurement and position outputs	
Reference outputs: CMR, CMR+™, RTCM 2.x, RTCM 3.0	
Navigation outputs: ASCII: NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK, GGA, GSA, ZDA, VTG, GST, PJT, PJK and Binary: Trimble GSOF	
1 Pulse Per Second Output	
Event Marker Input Support	
Datalink	
100M Ethernet interface	
Electrical	
9V- 18V DC power input	
Power: minimum 2.3 W (with Ethernet); maximum < 9 W	

Specifications subject to change without notice

[1] Depends on system WAAS, EGNOS and MSAS performances.

[2] Galileo GIOVE-A and GIOVE-B test satellite support uses information that is unrestricted in the public domain and is intended for signal evaluation and test purposes.

[3] Developed under a License of the European Union and the European Space Agency.

[4] May be affected by atmospheric conditions, signal multipath, and satellite geometry. Initialization reliability is continuously monitored to ensure highest quality.

CE RoHS 2002/95/EC

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