STONEX

SC200

TOP LEVEL PERFORMANCES AT AN AFFORDABLE PRICE

The STONEX SC200 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 SC200 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; moreover the SC200 supports raw data logging with up to 50Hz update rate. The SC200 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. This receiver has also an internal 5000 mAh battery for 16 hours of continuos power.

STONEX SC200 can be easily configured by an Internet interface, moreover it has a wide OLED display make it easy for any user to configure because a software interface is not required.

SC200 4Gb internal memory enables the collection and the storage of limitless amount of data. The available datalink includes WiFi, 3G WCDMA modem and Bluetooth. STONEX SC200 works seamlessly with the STONEX software NTRIP CASTER, and is fully compatible with most of the worldwide known GPS network software; thus, SC200 can be used both for starting a new network infrastructure or for an integration into existing networks.

KEY FEATURES

RELIABLE
Proven STONEX GNSS technology

EASY DATA
Internet connection by Ethernet device and optional output for external radio/modem
Internal power supply, USB, WiFi and 3G Wireless connections

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	
4 LED indicators	
256x64 High Luminosity OLED display	
Output	
1 USB OTG 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	
802.11g WIFI	
Bluetooth connection	
WCDMA 3G Wireless network	
Electrical	
9V- 18V DC power input	
Power: minimum 2.3 W (with Ethernet); maximum < 9 W	
Battery capacity: 5000mAH (work without external power for over 16 hours)	
Memory	
4G data memory	
512M system memory + 512M ram	
Able to record multiple files at the same time (maximum 5 simultaneous recording)	

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 Wi-fi

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