



SC100/SC200

TOP LEVEL PERFORMANCES AT
AN AFFORDABLE PRICE

The STONEX SC100 and SC200 C.O.R.S. (Continuously Operating Reference Station) are multi-frequency GNSS receivers designed for use as a stand-alone reference station or as part of a GNSS infrastructure solution.

SC100 and SC200 are typically used as an NTRIP server, and they are 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. SC100 and SC200 are 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. SC200 has also an internal 5000 mAh battery for 16 hours of continuous power.

SC100 and SC200 can be easily configured by an Internet interface, moreover SC200 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 SC100 and SC200 work seamlessly with the STONEX software NTRIP CASTER, and are fully compatible with most of the worldwide known GPS network software; thus, SC100 and SC200 can be used both for starting a new network infrastructure or for an integration into existing networks.



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 (SC200)

POWERFUL

Top-level performances at budget price

INTEGRABLE

Several software solution depending on customer's request

KEY FEATURES

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
Very low noise GNSS carrier phase measurements with <1 mm precision in a 1 Hz bandwidth	
Initialization time ⁴	Typically, less than 10 seconds
Initialization reliability ⁴	Typically >99.9%
Accuracy	
Static Vertical Accuracy	3mm ± 1ppm (RMS)
Static Horizontal Accuracy	2mm ± 0.5ppm (RMS)
Environmental	
Working temperature	-30°C to +65°C
Humidity	0% – 100%
SC100	SC200
Interface	
3 LED indicators	4 LED indicators
	256x64 High Luminosity OLED display
Output	
1 USB port	1 USB OTG port
1 LAN Ethernet port	
Network Protocols supported: HTTP (web GUI), NMEA, GSOFF, 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, VDG, VHD, ROT, GGK, GGA, GSA, ZDA, VTG, GST, PJT, PJK and Binary: Trimble GSOFF	
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)	
	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 The hardware is compliant to Galileo OS SIS ICD, Issue 1, Rev 1, Sep 2010. Commercial sale of Galileo technology requires to acquire a Commercial license from the EU.

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

STONEX AUTHORIZED DEALER



STONEX® EUROPE srl

Via Cimabue 39 - 20851 Lissone (MB) Italy
Phone +39 039 2783008 Fax +39 039 2789576
www.stonexpositioning.com
info@stonexpositioning.com