

SC200 GNSS Receiver

Multifunctional GNSS
Receiver



TECHNICAL FEATURES

RECEIVER

	GPS: L1 C/A, L2E, L2C, L5
	GLONASS: L1 C/A, L1P, L2 C/A, L2P
	BEIDOU: B1, B2
	GALILEO: E1, E5 AltBOC, E5a, E5b
	QZSS: L1 C/A, L1C, L2C, L5
	SBAS: L1, L5
Satellite Tracked	
Channels	220
Position Rate	20 Hz
Signal Reacquisition	< 1 sec
RTK Signal Initialization	Typically < 10 sec
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %
Internal Memory	32 GB

POSITIONING¹

HIGH PRECISION STATIC SURVEYING	
Horizontal	3 mm + 0.1 ppm RMS
Vertical	3.5 mm + 0.4 ppm RMS
CODE DIFFERENTIAL POSITIONING	
Horizontal	0.25 m RMS
Vertical	0.45 m RMS
SBAS POSITIONING ²	
Horizontal	0.50 m RMS
Vertical	0.85 m RMS
REAL TIME KINEMATIC (< 30 Km) - NETWORK SURVEYING ³	
Fixed RTK Horizontal	8 mm + 1 ppm RMS
Fixed RTK Vertical	15 mm + 1 ppm RMS

INTERNAL MODEM

Band	GSM/GPRS/EDGE: 850/1900 MHz WCDMA/HSDPA: 800/2100 MHz
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USER INTERFACE

Buttons	7 keys, function keys + power key
LEDs	4 LEDs, which show the Bluetooth, differential transmission, static record, and power state respectively.
OLED display	64 x 256 pixels, mono color display

SYSTEM CONFIGURATION

Operating System	Linux
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COMMUNICATION

I/O Connectors	Power port, 2 Serial port USB port Ethernet port 1PPS Event GNSS antenna SIM, card push-pop type
Bluetooth	2.1 GHz + EDR
Wi-Fi	802.11 b/g/n
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	RTCM 2.3, 3.0, 3.2, CMR, CMR+, RTCA, RINEX, BINEX
Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL

NETWORKING SERVICES

NTRIP	Caster/Server/Client
Remote Management	By Stonex Software
FTP server	For data download
Email alerts	For low storage and other warning messages

POWER SUPPLY

Battery	Rechargeable lithium battery 7.4 V - 5000 mAh
Voltage	9 to 18 V DC external power input
Working Time	Up to 16 hours
Charge Time	Typically 12 hours

PHYSICAL SPECIFICATION

Dimensions	189 mm x 159 mm x 53 mm
Weight	1.60 Kg
Operating Temperature	-30°C to 65°C (-22°F to 149°F)
Storage Temperature	-40°C to 75°C (-40°F to 167°F)
Waterproof/Dustproof	IP65
Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant

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

- 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.
- Depends on SBAS system performance.
- Network RTK precision depends on the network performances and are referenced to the closest physical base station.
- Varies with the operating environment and with electromagnetic pollution.



STONEX AUTHORIZED DEALER

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