

SC2200 GNSS Receiver

GNSS Receiver
for Reference Station



SC2200 TECHNICAL FEATURES

RECEIVER

Satellite signals tracked	GPS: L1 C/A, L1C, L2C, L2P, L5
	GLONASS: L1, L2, L3
	BEIDOU: B1, B2, B3, ACEBOC
	GALILEO: E1, ALTBOC, E5a, E5b, E6
	QZSS: L1 C/A, L1C, L2C, L5, LEX
	IRNSS: L5 ¹
	SBAS
L-Band	Atlas H10 / H30 / Basic (optional)
Channels	555/800
Position Rate	5 Hz, optional up to 100 Hz
Signal Reacquisition	< 1 s
Cold Start	Typically 60 s
Hot Start	Typically 10 s
Internal Memory	32 GB Multi storage sessions
External Memory	TF card / USB Flash Drive / SSD (Unlimited Bytes)
Spectrum Analyzer and Interference Mitigation Technology	Yes

POSITIONING²

HIGH PRECISION STATIC SURVEYING	
Horizontal	2.5 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 ³	
Horizontal	0.50 m RMS
Vertical	0.85 m RMS
REAL TIME KINEMATIC (< 30 Km) - NETWORK SURVEYING ⁴	
Fixed RTK Horizontal	8 mm + 1 ppm RMS
Fixed RTK Vertical	15 mm + 1 ppm RMS

INTERNAL MODEM

Band	GSM/GPRS/EDGE WCDMA/LTE
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USER INTERFACE

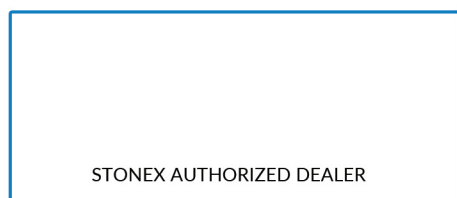
Buttons	4 keys, function keys + power key
LEDs	Power, data record, Bluetooth, differential transmission
OLED display	64 x 256 pixels, mono colour display

SYSTEM CONFIGURATION

Operating System	Linux
Processor	AM3354

- It is possible to trace the IRNSS signal with Firmware update.
- 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.

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



COMMUNICATION

I/O Connectors	Power port, Lemo connector	
	Power Over Ethernet (POE)	
	2 Serial port, Lemo connector	
	1 Serial port, DB9	
	USB port, Lemo connector	
Bluetooth	Ethernet port, RJ45 100/1000 Mbit	
	1PPS, SMA female	
	Event, SMA female	
	OSC, TNC female	
	GNSS antenna, TNC female	
	LTE, SMA female	
	Nano SIM card, push-pop type	
	TF card	
	Bluetooth	2.1 + EDR, V4.1
	Wi-Fi	802.11 b/g/n hotspot/client mode
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.x, 3.x CMR, CMR+, 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
NTP server	Support
Others	DDNS, VPN, SNMPD, Firewall

POWER SUPPLY

Battery	Rechargeable lithium battery 7.2 V - 13.600 mAh
Voltage	9 to 28 V DC external power input
Working Time	Up to 20 hours
Charge Time	Typically 15 hours

PHYSICAL SPECIFICATION

Dimensions	222 mm x 164 mm x 79 mm
Weight	2 Kg
Operating Temperature	-40°C to 65°C (-40°F to 149°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Waterproof/Dustproof	IP67
Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant



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