STONEX

SC2200 GNSS Receiver

GNSS Receiver
for Reference Station

cube suite

SC2200 TECHNICAL FEATURES

RECEIVER

Satellite Tracked	GPS: L1 C/A, L1C, L2C, L2P, L5
	GLONASS: L1 C/A, L2C, L2P, L3, L5
	BEIDOU: B1, B2, B3
	GALILEO: E1, E5 AltBOC, E5a, E5b, E6
	QZSS: L1 C/A, L1C, L2C, L5, L6
	IRNSS: L5
	SBAS: L1, L5
L-Band	Yes
Channels	555
Position Rate	5 Hz, optional up to 100 Hz
Signal Reacquisition	< 1 sec
RTK Signal Initialization	Typically < 10 sec
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %
Internal Memory	32 GB Multi storage sessions
External Memory	TF card / USB Flash Drive / SSD (Unlimited Bytes)

POSITIONING[1]

HIGH PRECISION STATIC SURVEYING	
Horizontal	3.0 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 WCDMA/LTE

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

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
	Ethernet port, RJ45 100/1000 Mbit
	1PPS, SMA female
	Event, SMA female
	OSC, MMCX 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

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

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

1. 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.
2. Depends on SBAS system performance.
3. Network RTK precision depends on the network performances and are referenced to the closest physical base station.

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