STONEX

SA1200 GNSS Antenna

GNSS Antenna
for Reference Station



suite cube

SA1200 TECHNICAL FEATURES

3D CHOKE RING ANTENNA

Stonex SA1200 is a high performance 3D Choke Ring GNSS antenna with strong multipath suppression and submillimeter phase center stability. It is ideal for applications of CORS stations, bridge and building deformation monitoring or geological monitoring and for the creation of a Network VRS.

TRACKING OF ALL GNSS SIGNALS

SA1200 is able to track all signals (L1, L2, L3/L5) of all available constellations; GPS, Glonass, Galileo, BeiDou, QZSS, IRNSS, SBAS and the L-band correction service.

The strong ability to receive low elevation signals with high gain and wide beam width makes SA1200 an excellent choice for tracking visible satellites and provide stable and precision GNSS data under complex environments, such as obstructed environment of tree lines or construction.

STRONG AND RUGGED

The SA1200 cover is made of Glass Fiber Reinforced Polymer(GFRP) material and is structurally strong and reliable. The IP67 ruggedized cover is also designed to protect the inside antenna from dust and water. It can be used in extreme conditions and guarantees operation at temperatures from -55°C to +85°C (-67°F to +185°F).

PERFORMANCE	
Satellite Signal Tracked	GPS: L1, L2, L5
	GLONASS: L1, L2, L3
	BEIDOU: B1, B2, B3
	GALILEO: E1, E5a, E5b, E6, AltBOC
	QZSS: L1, L2, L5
	IRNSS: L5
	SBAS: L1, L5
	L-BAND
Type	3D Choke Ring Antenna
Phase Center Accuracy	≤2mm
Phase Center Stability	±1mm
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤2dB
Peak Gain	6dB
LNA Gain	50dB (typical)
Noise Figure	≤1.5dB
Output/Input VSWR	≤2.0
Operation Voltage	+3VDC to +12VDC
Operation Current	60mA (maximum)
Group Delay Ripple	≤5ns

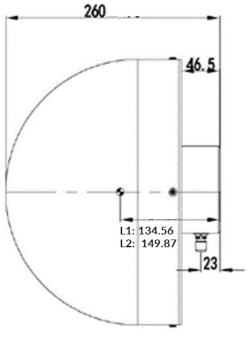
MECHANICAL	
Dimensions	Ø322mm x 260mm
Connector	TNC/N
Mounting	BSW 5/8"-11 screw, depth ≥22mm
Weight	5.5kg

ENVIRONMENTAL	
Operating Temperature	-55°C to 85°C (-67°F to 185°F)
Storage Temperature	-55°C to 85°C (-67°F to 185°F)
Humidity	Up to 100% non-condensing
Waterproof/Dustproof	IP67
Impact	Resistant to shocks and vibrations
Certification	MIL-STD-810H

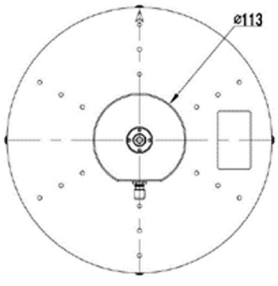
CALIBRATION	
NGS	Yes
IGS	Yes



TOP VIEW



SIDE VIEW



BOTTOM VIEW



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

STONEX AUTHORIZED DEALER

STONEX®
Viale dell'Industria 53 - 20037 Paderno Dugnano (MI) - Italy
Phone +39 02 78619201
www.stonex.it | info@stonex.it

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