

SA1000 GNSS Antenna

GNSS Antenna for Reference Station





SA1000 TECHNICAL FEATURES

MINI CHOKE RING ANTENNA

Stonex SA1000 is a high performance mini Choke Ring GNSS antenna with strong multipath suppression and submillimeter phase center stability. This antenna is ideal for use in installations for monitoring or CORS for the creation of a Network VRS.

The advantage of this antenna is to have excellent performance in small dimensions, it has a diameter of only 213mm and a low weight of 3Kg. This allows easy installation compared to the standard Choke Ring antenna which have larger dimensions and weight. TRACKING OF ALL GNSS SIGNALS

SA1000 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 SA1000 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 SA1000 radome 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. SA1000 is the perfect compromise of a compact antenna, performing but with a very competitive price.

PERFORMANCE		MECHANICAL
Satellite Signal Tracked	GPS: L1, L2, L5	Dimensions
	GLONASS: L1, L2, L3	Connector
	BEIDOU: B1, B2, B3	Mounting
	GALILEO: E1, E2, E5a, E5b, E6	Weight
	QZSS: L1, L2, L5, L6	
	IRNSS: L5	ENVIRONMENTAL
	SBAS: L1, L5	Operating Temperature
	L-BAND	Storage Temperature
Туре	Mini Choke Ring Antenna	Humidity
Phase Center Stability	± 1mm	Waterproof/Dustproof
Nominal Impedance	50Ω	
Polarization	RHCP	
Axial Ratio	≤2dB	NGS
Peak Gain	5.5dB	IGS
LNA Gain	40dB (typical)	
Noise Figure	≤1.5dB	
Output/Input VSWR	≤2.0	
Operation Voltage	+3.3VDC to +12VDC	
Operation Current	50mA (maximum)	
Group Delay Ripple	≤5ns	

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SIDE VIEW

TNC-K

MECHANICAL	
Dimensions	Ø213mm x 155mm
Connector	TNC female
Mounting	BSW 5/8"-11 screw, depth ≥22mm
Weight	3.0kg
ENVIRONMENTAL	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-55°C to 85°C (-67°F to 185°F)
Humidity	95% non condensing

CALL	DDAT	ION
CAL	BRAT	ION

UNC:5/8"-11

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	CALIDICATION		
-	NGS	Yes	
	IGS	Yes	

IP67



TOP VIEW





BOTTOM VIEW

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