



SA1800 GNSS Antenna

GNSS Antenna
for Reference Station



SA1800 TECHNICAL FEATURES

3D CHOKE RING ANTENNA

The unique 3D choke ring design of SA1800 ensures an excellent multipath reduction performance across all GNSS frequency bands including L-Band. It is ideal for applications of CORS stations, bridge and building deformation monitoring or geological monitoring due to its sub-millimeter phase center stability.

TRACKING EVERYWHERE

The strong ability to receive low elevation signals with high gain and wide beam width makes SA1800 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.

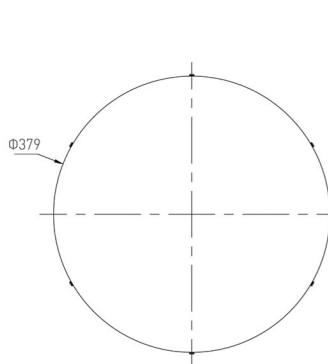
STRONG ANTI-INTERFERENCE PERFORMANCE

The antenna LNA features an excellent out-of-band rejection performance, which can suppress the EMI, providing the stability and reliability of GNSS signals. Also it effectively avoids disconnection dangerous when receivers are being interfered by wireless communication systems, for example power grid, communication base station or radio modem applications.

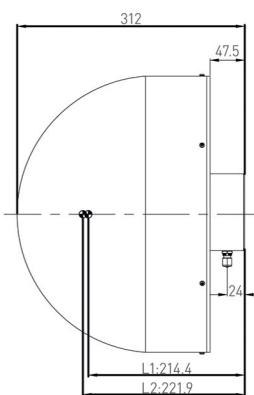
RUGGED

The SA1800 cover is made of Glass Fiber Reinforced Polymer(GFRP) material and is structurally strong and reliable. The IP67 ruggedized cover is also designed for added protection for inside antenna avoid from dust and water.

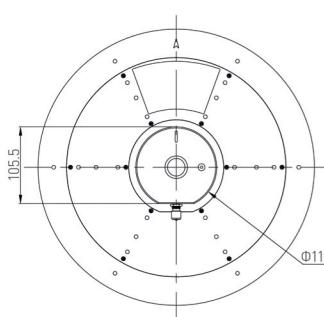
PERFORMANCE		MECHANICAL	
GPS	L1, L2, L5	Dimensions	Ø379mm x 312mm
GLONASS	L1, L2, L3	Connector	TNC female
BEIDOU	B1, B2, B3	Mounting	BSW 5/8"-11 screw, depth ≥22mm
GALILEO	E1, E5a, E5b, E6, AltBOC	Weight	10.5kg
QZSS	L1, L2, L5, L6		
IRNSS	L5		
SBAS	L1, L5		
L-BAND			
Type	3D Choke Ring Antenna	ENVIRONMENTAL	
Phase Center Stability	± 1mm	Operating Temperature	-45°C to 85°C (-49°F to 185°F)
Nominal Impedance	50Ω	Storage Temperature	-55°C to 85°C (-67°F to 185°F)
Polarization	RHCP	Humidity	95% non condensing
Axial Ratio	≤2dB	Waterproof/Dustproof	IP67
Peak Gain	7dB		
LNA Gain	50dB (typical)	CALIBRATION	
Noise Figure	≤2dB	NGS	Yes
Output/Input VSWR	≤2.0	IGS	Yes
Operation Voltage	+3.3VDC to +12VDC		
Operation Current	60mA (maximum)		
Group Delay Ripple	≤5ns		



TOP VIEW



SIDE VIEW



BOTTOM VIEW



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

STONEX AUTHORIZED DEALER

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