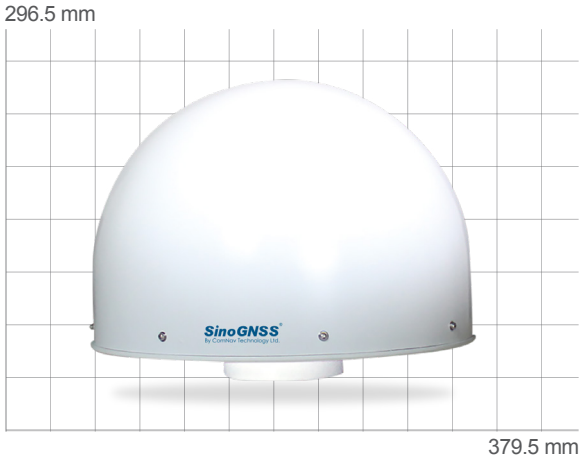
AT500 Choke Ring Antenna

Choke Ring Antenna | Ver.2020.10.14



Dimension: Φ379.5×296.5mm
Weight: < 8.5kg

AT500
Choke Ring Antenna

The AT500 is a high-performance choke ring antenna that can track GPS L1, L2, L5, GLONASS L1, L2, BeiDou B1, B2, B3, Galileo, L-Band and SBAS. It is specially designed for deformation monitoring, CORS, and related GNSS infrastructure networks.

Features

- Support GPS L1/L2/L5, GLONASS L1/L2, BeiDou B1/B2/B3, Galileo E1/E5a/E5b/E6, L-Band and SBAS
- Low noise amplifier and high gain
- Sub-millimeter level phase center error with outstanding stability and repeatability
- Strong capability of tracking satellites at low elevation angle
- Superior waterproof and dustproof design

Antenna	
GPS	L1, L2, L5
GLONASS	L1, L2
BeiDou	B1, B2, B3
Galileo	E1, E5a, E5b, E6
SBAS, L-Band	
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio (90°)	≤ 3dB

LNA	
LNA Gain	50dB ± 2dB
Noise Figure	≤ 2dB
VSWR Output	≤ 2.0
Operation Voltage	3.3 - 12 VDC
Operation Current	≤ 55mA
Group Delay	< 5ns
Passband Ripple	± 2dB
Gain at Zenith	7dBi
Phase Center Offset	± 1mm

Physical	
Dimension	Φ379×311 mm
Connector	TNC Female connector
Weight	6.9kg

Environmental	
Operating Temperature	-40℃ to +85℃
Storage Temperature	-55℃ to +85℃
Humidity	95% No-condensing
Water and Dust Proof	IP67
Drop	Survive from 1meter drop
Calibration	IGS,NGS

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