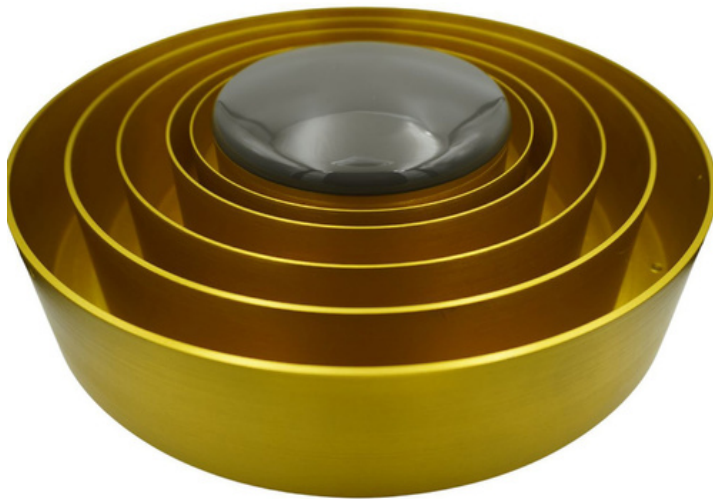


RingAnt-S

Choke Ring GNSS Antenna



Key Features

- All GNSS Constellations
- Weatherproof Housing
- Extended Operating Temperature
- Stable Phase Center
- Tracking To Horizon
- Aluminum Base

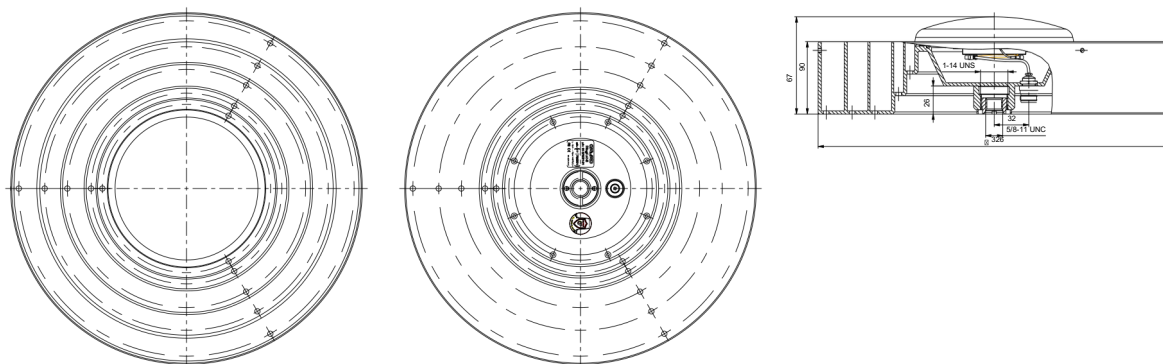
The RingAnt-S is wide-band antenna with full GNSS spectrum compatibility to track GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC, SBAS, and L-Band signals.

The RingAnt-S features a stable phase center with enhanced signal reception and is ideal for high precision positioning using L-Band corrections. With a durable IP68 housing, the RingAnt-S is suitable for a wide variety of applications.

GNSS Constellations	Constellations	Channels	Gain*, dB	Channels	Gain*, dB
	GPS	L1	5	L2/L5	4
	GLONASS	L1		L2/L3	
	Galileo	E1		E5A/E5B/E6	
	BeiDou	B1/B1C		B2A/B2B/B3	
	QZSS	L1		L2/L5/L6	
	SBAS	L1		L5	
	NaviC	L1,S		L5	
	L-Band			1520 - 1559	
Out-of-Band Rejection	1164–1300 MHz	>60 dB @ 1000 MHz, >15 dB @ 1350 MHz,			
	1520–1610 MHz	>30 dB @ 1400 MHz, >20 dB @ 1462 MHz, >10 dB @ 1480 MHz, >20 dB @ 1690 MHz >30 dB @ 1710 MHz, >60 dB @ 1800 MHz			
	2483.5 - 2500 MHz	>50 dB @ 2400 MHz, >15 dB @ 2440 MHz, >20 dB @ 2550 MHz, >50 dB @ 2600 MHz			
Electrical	Axial Ratio Output	3.0 dB (max)			
	Impedance	50 Ohm			
	VSWR Max	2.0:1			
	LNA Gain	32±2 dB; 40±2 dB (optional)			
	Noise Figure	1.7 dB typical, 2.3 dB typical for S-Band			
Connector	Antenna Type	Microstrip			
	Connector	TNC; N-type (optional)			
	Mounting	5/8-11; 1-14 (optional)			
Power	Input Voltage	+3.0 to +15 VDC			
	Power Consumption	1.3 W (max)			
	Current	90 mA @ 5.0V typical			
Physical & Environmental	Operating / Storage Temps	-45°C to +85° C / -50°C to +85°C			
	Humidity	Waterproof, 100% non-condensing, IP68			
	Dimensions	Ø326 mm, h = 88 mm			
	Weight	2.8 kg			
	Material	Radome: ABS, Base: Aluminum			

*typical at Zenith

Detailed Dimensions & Mounting Points



GNSS performance is dependent on signal quality, satellite geometry, ionospheric and tropospheric conditions, baseline length, multipath effects and RF interference. Specifications may be changed without notice.