



RingAnt-S

Choke Ring GNSS Antenna



Key Features

- All GNSS Constellations
- Spherical Radome
- Extended Operating Temperature
- Stable Phase Center
- Zenith To Horizon Tracking
- Aluminum Base

The RingAnt-S is a wideband choke-ring antenna with full GNSS spectrum compatibility for tracking GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC, SBAS, and L-Band signals. NavIC is tracked on L1, L5, & S-Band.

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

RingAnt-S Specifications



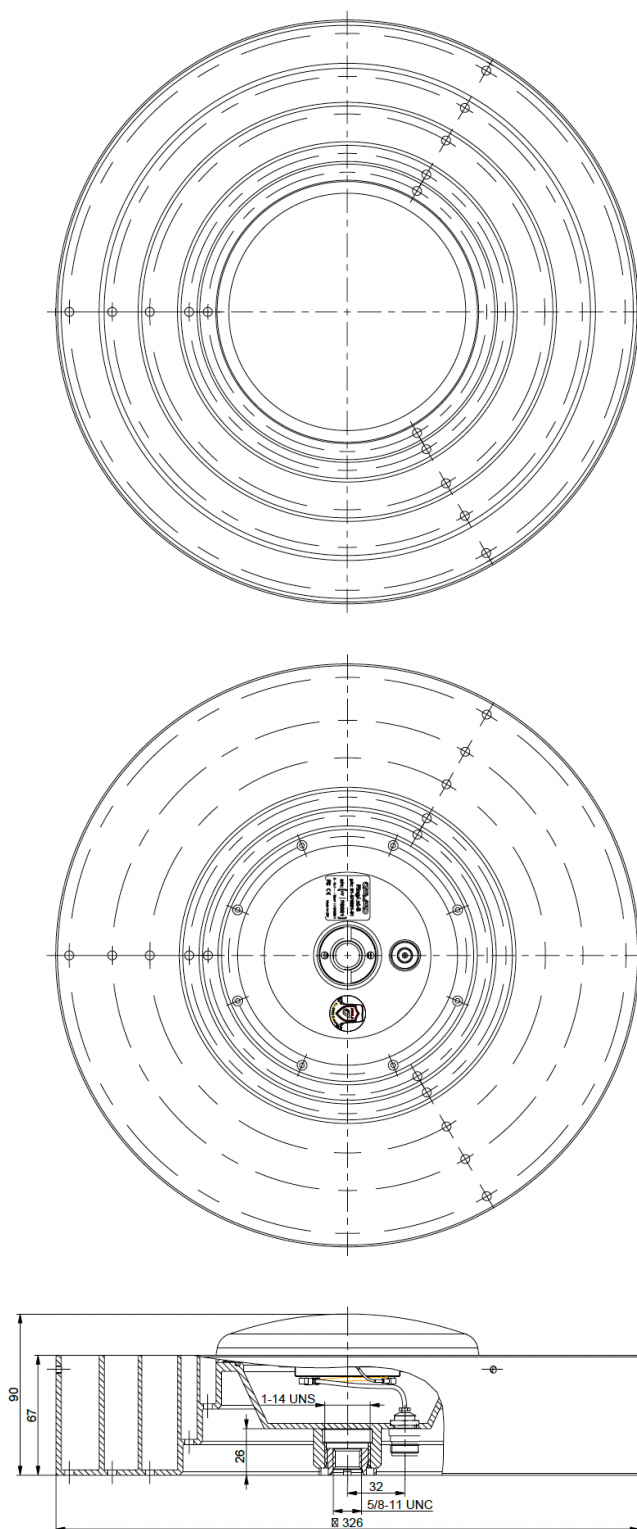
Tracking	Constellations	Channels	Gain*, dB	Channels	Gain*, dB
	GPS	L1	5	L2 / L5	4
	GLONASS	L1		L2 / L3	
	Galileo	E1		E5A / E5B / E6	
	BeiDou	B1 / B1C		B2A / B2B / B3	
	QZSS	L1		L2 / L5 / L6	
	SBAS	L1		L5	
	NavIC	L1 / L5 / S-Band		L5	
	L-Band	1520 - 1559 MHz			
Out-of-Band Rejection	1164 - 1253 MHz	>60 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 @ 5.0 VDC typical			
Physical & Environmental	Operating / Storage Temps	-45°C to +85°C / -50°C to +85°C			
	Humidity / Ingress Protection	Waterproof, 100% non-condensing, IP68			
	Dimensions	Ø326 mm, h = 88 mm			
	Weight	2.8 kg			
	Material	Radome: ABS, Base: Aluminum			
	Shock	MIL-STD-810H Method 516.8 Procedure I			
	Vibration	MIL-STD-810H Method 514.8 Procedure I			
NGS/IGS ANTENNA CODE	Without Radome	JAVRINGANT_S NONE			
	With Spherical Radome	JAVRINGANT_S JVSR			
	Antenna Reference Point (ARP)	Bottom of the Antenna Mount (BAM)			
	North Reference Point (NRP)	Receiver Connector (RXC)			

*typical at Zenith

Refer to user manual for full specifications.

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.

Dimensions & Mounting Points



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