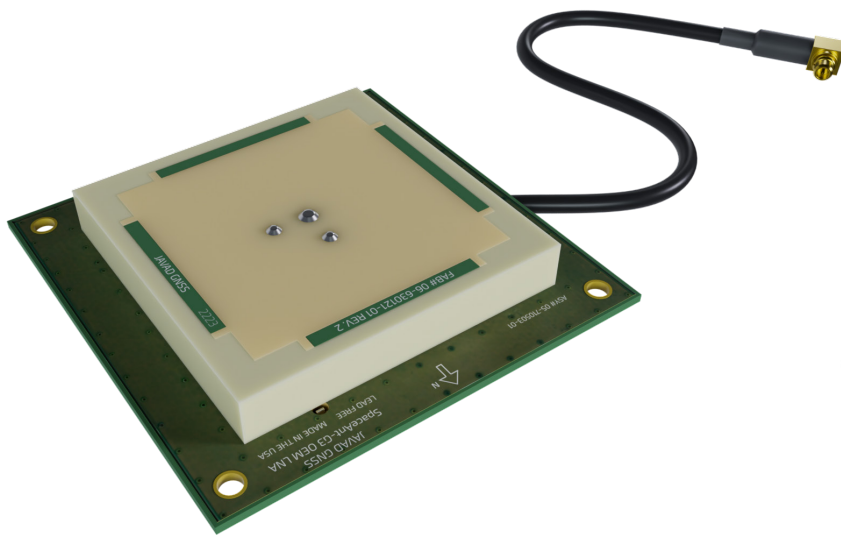




# SpaceAnt-G3

OEM GNSS Antenna



## Key Features

- All GNSS Constellations
- Out-of-Band Rejection
- L-Band Tracking
- Tracking to Horizon
- Extended Operating Temperature
- Small form-factor

SpaceAnt-G3 is a wide-band OEM GNSS antenna designed for reliable L1 signal tracking of GPS, GLONASS, Galileo, BeiDou, NavIC, QZSS, and SBAS frequencies, as well as L-Band. This antenna features a stable phase center with enhanced signal reception and is usable for single-frequency applications. The compact and robust design allows flexibility, performance, and easy integration in the LEO satellite environment.

SpaceAnt-G3 complements our space-hardened TR-2S LEO receiver to create a complete OEM solution on small satellites.

# SpaceAnt-G3 Specifications



GNSS Constellations	Constellation	Channels	Gain*, dB
	GPS	L1	5
	GLONASS	L1	
	Galileo	E1	
	BeiDou	B1/B1C	
	QZSS	L1	
	SBAS	L1	
	NavIC	L1	
L-Band	1525 - 1559 MHz		
Out-of-Band Rejection	1525-1610 MHz	>10 dB @ 1690 MHz, >30 dB @ 1710 MHz, >45 dB @ 1800 MHz	
Electrical	Axial Ratio Output	3.0 dB max.	
	Impedance	50 Ohm	
	VSWR Max	2.0:1	
	LNA Gain	32 ± 2 dB	
	Noise Figure	1.0 dB typical	
Power	Input	+3.8 to + 18 VDC	
	Current	75 mA typical	
	Power Consumption	0.285 W	
Connector	Antenna Cable	mmcx: 0.13 m, MMCX, Amphenol plug p/n 908-43200 sma: 0.5 m RG-178, SMA, Molex plug p/n 732511441	
	Mounting	4 holes D 4 mm	
Physical	Dimensions	47 x 47 x 9.6 mm	
	Weight	32 g	
Environmental	Operating Temperature	-45°C to +85° C	
	Storage Temperature	-50°C to +85°C	
	Shock & Vibration	MIL-STD-810H Method 516.8 Shock - Functional Procedure I MIL-STD-810H Method 514.8 Vibration - Procedure I, Category 4	

**mmc**: Variant with MMCX connector

**sma**: Variant with SMA connector

\* Typical at zenith.

Specifications may be changed without notice.