MiniAnt-G3

GNSS Antenna

Key Features

- All GNSS Constellations
- Extended Operating Temperature
- L-Band Tracking
- Stable Phase Center
- Zenith to Horizon Tracking
- Out-of-Band Rejection

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

MiniAnt-G3 complements our space-hardened TR-2S LEO receiver to create a complete GNSS solution on Earth or in LEO.

MiniAnt-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	1520-1610 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 max.	
Physical	Dimensions	78.0 x 66.5 x 17.2 mm	
	Weight	80 g	
Connector	Antenna Cable	0.5 m, SMA, Molex plug p/n 732511441	
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	

* Typical at zenith.

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.