MiniAnt-G3T

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-G3T is our SpaceAnt-G3T GNSS antenna in an environmental enclosure for rapid deployment. This wide-band GNSS antenna is designed for reliable 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, dual, and triple frequency applications. The compact and robust design allows flexibility, performance, and easy integration in the LEO satellite environment.

MiniAnt-G3T complements our space-hardened TR-2S LEO receiver to create a complete GNSS solution on Earth or in LEO.

MiniAnt-G3T Specifications

GNSS Constellations	**Constellation**	**Channels**	**Gain*, dB**	**Channels**	**Gain*, dB**
	GPS	L1	5	L2/L5	4
	GLONASS	L1		L2/L3	
	Galileo	E1		E5A/E5B	
	BeiDou	B1/B1C		B2A/B2B	
	QZSS	L1		L1/L2	
	SBAS	L1		L5	
	NavIC	L1		L5	
	L-Band	1525 - 1559 MHz			
Out-of-Band Rejection	1165-1254 MHz 1520-1610 MHz	>50 dB @ 1000 MHz, >25 dB @ 1300 MHz >30 dB @ 1400 MHz, >20 dB @ 1462 MHz, >10 dB @ 1480 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	1.7 dB typical			
Power	Input	+3.8 to +18 VDC			
	Current	100 mA typical			
	Power Consumption	0.68 W max.			
Physical	Dimensions	90.9 x 72.0 x 23.3 mm			
	Weight	110 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.