

Dual Band 37dBi UAV GPS/GNSS Antenna 1,217-1,610 MHz SMA Male Connector IP67



LCANGPS1000

Features

- Dual Band
- IP67 Rated
- 1.217- 1.257GHz and 1.565-1.610GHz
- Stable Phase Center
- Millimeter Level Accuracy
- SMA Male

Applications

- GPS L1/L2
- GLONASS L1/L2
- Galileo E1
- QZSS L1/L2
- SBAS L1
- Unmanned Vehicles/Vessels
- GIS Surveying
- Autonomous Vehicles

Description

The LCANGPS1000 is an active GPS/GNSS dual band L1/L2 antenna with 37dBi overall gain. This high precision antenna is IP67 rated, light weight and designed for Unmanned Aerial Vehicles (UAV). The active UAV GPS/GNSS antenna is ideally suited for use in harsh operating environments where stability and reliability of GPS/GNSS signal is required.

This antenna operates in the 1.217- 1.257GHz and 1.565-1.610GHz bands meeting GPS L1/L2, GALILEO E1 and GLONASS L1/L2 requirements. The LCANGPS1000 antenna has an integrated LNA with 1.5 dB noise figure and typical LNA gain of 33 dB.

The LCANGPS1000 GPS antenna from L-com, with an axial ratio of 3 dB, can track visible satellites under extreme conditions, providing positioning solutions with accuracy for UAV navigation, autonomous tracking, or GIS surveying.

Configuration

Design	GPS/GNSS
Band Type	Dual
Polarization	RHCP
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,217		1,610	MHz
Output VSWR			2:1	
Impedance		50		Ohms
Gain		37		dBi
Noise Figure		1.5		dB
Operating DC Voltage	3.3		12	Volts
Current			55	mA
Axial Ratio		3		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Dual Band 37dBi UAV GPS/GNSS Antenna 1,217-1,610 MHz SMA Male Connector IP67 LCANGPS1000](#)

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.217 to 1.257	1.565 to 1.61				GHz
Gain	37	37.5				dBi

Mechanical Specifications

Size

Length	2.32 in [58.93 mm]
Width	1.08 in [27.43 mm]
Height	1.08 in [27.43 mm]
Weight	0.05 lbs [22.68 g]

Environmental Specifications

Temperature

Operating Range	-40 to +70 deg C
Storage Range	-40 to +70 deg C
Humidity	95%

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Dual Band 37dBi UAV GPS/GNSS Antenna 1,217-1,610 MHz SMA Male Connector IP67 from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing

