

FMANGPS1000 DATA SHEET

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

The FMANGPS1000 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 Arial 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 FMANGPS1000 antenna has an integrated LNA with 1.5 dB noise figure and typical LNA gain of 33 dB.

The FMANGPS1000 GPS antenna from Fairview Microwave, 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
Gain 37 to 37 dBi
Polarization RHCP
Connector Type SMA Male

Electrical Specifications

Description	Min	Тур	Max	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

Specifications by Frequency

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

Mechanical Specifications

Size

 Length
 2.322 in [58.98 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 CStorage Range -40 to +70 deg C



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

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Humidity 95%

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Dual Band 37dBi GPS/GNSS UAV Antenna 1,217-1,610 MHz SMA Male Connector IP67 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Dual Band 37dBi GPS/GNSS UAV Antenna 1,217-1,610 MHz SMA Male Connector IP67 FMANGPS1000

URL: https://www.fairviewmicrowave.com/gps-active-band-antenna-1.217-1.61-ghz-37-dbi-gain-sma-male-connector-rhcp-fmangps1000-p.aspx

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