

## 2.4/5.8GHz 10 dBi Dual Polarity MIMO Panel Antenna

This very compact panel 2.4/5.8 GHz multiple-input and multiple-output (MIMO) patch antenna is designed to operate with many manufacturers' enterprise-class 802.11n MIMO access points (APs). It features two independent dual-band, vertically polarized antennas in a single housing, making it an ideal and aesthetically pleasing antenna to support demanding indoor or outdoor applications in next generation IEEE 802.11n and 802.11ac wireless communication systems.

The antenna is fed via two N-Female ports, one for vertically polarized and one for horizontally polarized signals. This feature makes this antenna ideal for polarization diversity systems.

Designed for all weather operation, the FM51FP1001 features drain holes in the radome to help prevent moisture build-up inside the antenna. The antenna is supplied with a 30 degree tilt and swivel mast mount kit. This allows the antenna to be positioned for optimal performance. It can be adjusted up or down from 0° to 30°. It can be mounted to a 1" (25.4 mm) to 1.7" (43.2 mm) dia. masts.

### Configuration

Design	Panel
Gain	8 dBi
Polarization	Vertical/Horizontal
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

### Electrical Specifications

Description	Min	Typ	Max	Units
Impedance		50		Ohms
Isolation	28			dB
Front to Back Ratio		15		dB
Input Power			50	Watts

### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-2.5	4.9-5.85				GHz
Gain	8	10				dBi
Horiz. Beam Width	57	42				Degrees
Vert. Beam Width	90	70				Degrees
Max Input Power	50	50				Watts

### Mechanical Specifications

Radome Material	ABS
<b>Size</b>	
Length	4 in [101.6 mm]
Width	4 in [101.6 mm]
Height	3.5 in [88.9 mm]



### Features:

- Compact size, 4 x 4 x 3.5 in.
- Durable UV-stable ABS radome
- All weather operations
- Dual polarity feed system in single enclosure
- MIMO - Multiple Input/ Multiple Output

### Applications:

- 2.4/5.8 GHz ISM Band
- IEEE 802.11a/b/g/n Wireless LAN
- IEEE 802.11ac Wireless systems
- WiFi and public wireless hotspots
- 802.11n MIMO applications

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Mounting Mast Diameter 1 to 1.7 in [25.40 to 43.18 mm]  
Weight 0.458 lbs [207.75 g]

Mechanical Specification Notes:  
Radome material is UV-protected ABS.

### Environmental Specifications

#### Temperature

Operating Range -40 to +60 deg C

Wind Loading 130 MPH [209.21 KPH]

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

### Plotted and Other Data

Notes:

2.4/5.8GHz 10 dBi Dual Polarity MIMO Panel Antenna 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: [2.4/5.8GHz 10 dBi Dual Polarity MIMO Panel Antenna FM51FP1001](#)

URL: <https://www.fairviewmicrowave.com/multi-antenna-0-dbi-gain-n-fm51fp1001-p.aspx>

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