

### 2.4/4.9-5.8 GHz Four Element, Dual Polarized MIMO Flat Panel Antenna

The Fairview Microwave FM51FP1004 Flat Panel Antenna combines four dual band antennas in a single housing. The unit consists of two vertically and two horizontally polarized multi-patch antennas. It is a professional quality antenna designed primarily for MIMO point-to-multipoint and point-to-point applications in the 2.4 GHz and the 4.9-5.8 GHz frequency bands. The unit can be used with APs and Routers with one to four antenna ports.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radios to transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.

#### Configuration

Design	Panel
Gain	13 to 14 dBi
Polarization	Vertical/Horizontal
Connector Type	N Female
Interface 2	N Female
Interface 3	N Female
Interface 4	N Female
Number of Ports	4
Lightning Protection	DC Ground

#### Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR			2:1	
Impedance		50		Ohms
Gain		14		dBi
Input Power			25	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	13	14				dBi
Horiz. Beam Width	40	32				Degrees
Vert. Beam Width	45	22				Degrees
Max Input Power	25					Watts

#### Mechanical Specifications

Radome Material	ASA
<b>Size</b>	
Length	12.4 in [314.96 mm]
Width	12.4 in [314.96 mm]
Height	0.98 in [24.89 mm]
Mounting Mast Diameter	0.75 to 2 in [19.05 to 50.80 mm]
Weight	14 lbs [6.35 kg]



#### Features:

- Four independent antennas
- MIMO - Multiple-Input and Multiple-Output
- Dual polarity feed system in single enclosure
- Two vertical and two horizontal elements
- UV-resistant radome for all-weather operation

#### Applications:

- 2.4/4.9-5.8 GHz Indoor/Outdoor Wireless LAN systems
- MIMO wireless access points and routers
- Homeland Security and Public Safety Band
- Supports IEEE 802.11 a/b/g/n and 802.11ac applications
- Hospitality, Industrial, Municipality

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Mechanical Specification Notes:  
Radome material is UV-resistant ASA.

## Environmental Specifications

### Temperature

Operating Range -40 to +85 deg C

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

## Plotted and Other Data

Notes:

2.4/4.9-5.8 GHz Four Element, Dual Polarized MIMO Flat 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: [2.4/4.9-5.8 GHz Four Element, Dual Polarized MIMO Flat Panel Antenna FM51FP1004](#)

URL: <https://www.fairviewmicrowave.com/dual-antenna-14-dbi-gain-n-fm51fp1004-p.aspx>

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