

## 4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna

The Fairview Microwave FM51YA1006 Yagi Antenna combines vertical and horizontal polarization with high gain over a broadband frequency in a single enclosure. It is a professional quality antenna designed primarily for MIMO point-to-multipoint applications in the 4.9 GHz to 5.8GHz frequency bands.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radio transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment. This antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The FM51YA1006 antenna is supplied with a stainless steel tilt and swivel mast mount kit. This allows installation at various degrees of up/down tilt for easy alignment.

### Configuration

Design	Yagi
Gain	17 to 17 dBi
Polarization	Vertical or Horizontal
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

### Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		17		dBi
Front to Back Ratio		18		dB
Input Power			50	Watts

### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.9-5.85					GHz
Gain	17					dBi
Horiz. Beam Width	22					Degrees
Vert. Beam Width	23					Degrees
Max Input Power	50					Watts

### Mechanical Specifications

Radome Material	ABS
<b>Size</b>	
Length	13.9 in [353.06 mm]
Width	2.6 in [66.04 mm]
Height	4.6 in [116.84 mm]
Weight	0.038 lbs [17.24 g]



### Features:

- MIMO - Multiple-Input and Multiple-Output
- Dual Polarity feed system in single enclosure
- UV-resistant radome for all-weather operation
- Two integral N-Female connectors

### Applications:

- 4.9/5.1/5.3/5.4/5.8 GHz Wireless LAN systems
- MIMO PtMP 1x2, 2x2 base station
- Supports IEEE 802.11 a/n applications
- Homeland Security and Public Safety band
- WiMAX, WISP, WiFi, Mobile Communication

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## Environmental Specifications

Wind Loading 130 MPH [209.21 KPH]

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

## Plotted and Other Data

Notes:

4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO 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: [4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna FM51YA1006](#)

URL: <https://www.fairviewmicrowave.com/wide-antenna-17-dbi-gain-n-fm51ya1006-p.aspx>

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