

### 2.4 GHz 12 dBi Yagi Antenna

The Fairview Microwave FM51YA1002 Radome Enclosed Yagi WiFi Antenna features high gain and a 45° beam-width. It is ideally suited for directional and multipoint IEEE 802.11b, 802.11g and 802.11n wireless LANs, Bluetooth®, public wireless hotspot applications and other systems operating in the 2.4GHz ISM band. The unique design of this antenna allows it to be installed for either vertical or horizontal polarization.

This WiFi antenna is enclosed within a UV-stable, UL flame rated radome for all-weather operation. The FM51YA1002 antenna is supplied with a 60 degree tilt and swivel mast mount kit.

#### Configuration

Design	Yagi
Gain	12 to 12 dBi
Polarization	Vertical or Horizontal
Cable Type	Coax Cable
Cable Length	12 in [304.8 mm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

#### Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		12		dBi
Input Power			50	Watts

#### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-2.5					GHz
Gain	12					dBi
Horiz. Beam Width	45					Degrees
Vert. Beam Width	45					Degrees
Max Input Power	50					Watts

#### Mechanical Specifications

Radome Material	Polymer
<b>Size</b>	
Length	11.2 in [284.48 mm]
Width	3 in [76.2 mm]
Height	3 in [76.2 mm]
Mounting Mast Diameter	1.25 to 2 in [31.75 to 50.80 mm]
Weight	0.748 lbs [339.29 g]

Mechanical Specification Notes:  
Radome material is UV-inhibited Polymer.



#### Features:

- 12 inch coax lead terminated with a N-Female Connector
- UV-stable, UL flame rated radome with 45° beam-width
- DC Short lightning protection
- Includes tilt and swivel mast mount
- Can be installed for either vertical or horizontal polarization

#### Applications:

- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g & IEEE 802.11n Wireless LAN
- Directional and multipoint applications
- Bluetooth® & Public Wireless Hotspot
- WiFi & wireless video systems

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**Environmental Specifications**

**Temperature**

Operating Range -20 to +60 deg C  
Wind Loading 150 MPH [241.4 KPH]

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

**Plotted and Other Data**

Notes:

2.4 GHz 12 dBi Yagi 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 GHz 12 dBi Yagi Antenna FM51YA1002](#)

URL: <https://www.fairviewmicrowave.com/single-antenna-12-dbi-gain-n-fm51ya1002-p.aspx>

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