

2.4 GHz 12 dBi Stainless Steel Yagi Antenna

The Fairview Microwave FM51YA1004 WiFi Yagi Antenna features high gain and a 40° beam-width with a 7 inch coax lead terminated with a N-Female connector. 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.

This antenna features a heavy-duty 1/2" stainless steel boom and solid 1/8" stainless steel elements which ensures superior durability and long performance life in all weather conditions. The FM51YA1004 antenna is supplied with a tilt and swivel mast mount kit. This mounts provides 0-20 degree up or down tilt in 10 degree increments.

Configuration

Design	Yagi
Gain	12 to 12 dBi
Polarization	Vertical
Cable Type	Coax Cable
Cable Length	7 in [177.8 mm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

Electrical Specifications

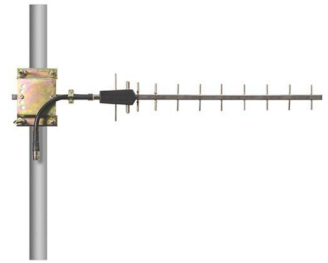
Description	Min	Typ	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		12		dBi
Front to Back Ratio		18		dB
Input Power			100	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-2.483					GHz
Gain	12					dBi
Horiz. Beam Width	40					Degrees
Vert. Beam Width	40					Degrees
Max Input Power	100					Watts

Mechanical Specifications

Radome Material	ABS
Size	
Length	23.5 in [596.9 mm]
Width	5.2 in [132.08 mm]
Height	3.5 in [88.9 mm]
Mounting Mast Diameter	1.5 to 2.3 in [38.10 to 58.42 mm]
Weight	1.104 lbs [500.77 g]



Features:

- Stainless steel construction
- 40° beam-width
- DC Short lightning protection
- Includes tilt and swivel mast mount
- 7 inch coax lead terminated with a N-Female connector

Applications:

- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g Wireless LAN
- IEEE 802.11n (Pre-N, Draft-N, MIMO) Applications
- Bluetooth® & Public Wireless Hotspot
- WiFi & Wireless Video Systems

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Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Wind Loading 124 MPH [199.56 KPH]

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

Plotted and Other Data

Notes:

2.4 GHz 12 dBi Stainless Steel 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 Stainless Steel Yagi Antenna FM51YA1004](#)

URL: <https://www.fairviewmicrowave.com/single-antenna-12-dbi-gain-n-fm51ya1004-p.aspx>

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