

900 MHz 9 dBi SS Yagi Antenna

The Fairview Microwave FM51YA1012 High-Performance Yagi Antenna combines high gain with a wide beam-width. They are ideally suited for directional applications in the 900MHz ISM and GSM bands. Typical applications include 900MHz Wireless LAN, SCADA, Wireless Video Links, 900 MHz Cellular, Non Line of Sight (NLOS) applications and point to multi-point systems. External interference of this antenna is minimized due to the excellent front to back ratio. It can be installed for either vertical or horizontal polarization.

This antenna features a heavy-duty 1/2" stainless steel boom and solid 1/8" elements. Secure mounting is assured by a 1/8" thick plated steel mounting plate and two plated steel U-bolts. It comes with a 18" coax lead terminated with an N-Female connector.

Configuration

Design	Yagi
Gain	9 to 9 dBi
Polarization	Vertical or Horizontal
Cable Length	18 in [457.2 mm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

Electrical Specifications

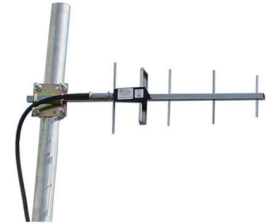
Description	Min	Typ	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		9		dBi
Front to Back Ratio		14		dB
Input Power			100	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.89-0.96					GHz
Gain	9					dBi
Horiz. Beam Width	54					Degrees
Vert. Beam Width	48					Degrees
Max Input Power	100					Watts

Mechanical Specifications

Size	
Length	21.8 in [553.72 mm]
Width	6.7 in [170.18 mm]
Height	2 in [50.8 mm]
Mounting Mast Diameter	2 in [50.80 mm]
Weight	1.01 lbs [458.13 g]



Features:

- 9 dBi gain & all weather steel construction provides superior performance
- Can be installed for either vertical or horizontal polarization
- Solid Stainless Steel 1/8" elements
- Heavy-duty 1/2" stainless steel boom
- 18 inch coax lead & 1/8" thick plated steel mounting plate

Applications:

- 900MHz ISM Band & Wireless LAN systems
- Point to multipoint & Non Line of Sight (NLOS) applications
- 900MHz Cellular and GSM
- RFID & SCADA
- Wireless Video Links

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Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Wind Loading 135 MPH [217.26 KPH]

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

Plotted and Other Data

Notes:

900 MHz 9 dBi SS 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: [900 MHz 9 dBi SS Yagi Antenna FM51YA1012](#)

URL: <https://www.fairviewmicrowave.com/wide-antenna-9-dbi-gain-n-fm51ya1012-p.aspx>

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