

900 MHz 9 dBi AI Yagi Antenna

The Fairview Microwave FM51YA1009 High-Performance Yagi Antenna in an economical package combines accurate gain with a wide beam-width, ideally suited for directional applications in the 900 MHz ISM and GSM bands. This series of Yagi antennas provides the user with anodized aluminum boom, solid elements, low loss series 400 COAX, and rugged mounting hardware.

Configuration

Design	Yagi
Gain	9 to 9 dBi
Polarization	Vertical or Horizontal
Cable Type	400 series
Cable Length	15 in [381 mm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

Features:

- 9 dBi gain & all weather Anodized Aluminum construction
- Can be installed for either vertical or horizontal polarization
- Solid Aluminum 1/8" elements
- Heavy-duty 1/2" Aluminum boom
- 15 inch coax lead & 1/8" thick plated steel mounting plate



Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		9		dBi
Front to Back Ratio		15		dB
Input Power			100	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.824-0.96					GHz
Gain	9					dBi
Horiz. Beam Width	53					Degrees
Vert. Beam Width	42					Degrees
Max Input Power	100					Watts

Mechanical Specifications

Radome Material	ABS
Size	
Length	27.4 in [695.96 mm]
Width	7.1 in [180.34 mm]
Height	2 in [50.8 mm]
Mounting Mast Diameter	2 in [50.80 mm]
Weight	0.43 lbs [195.04 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Wind Loading	135 MPH [217.26 KPH]

Applications:

- 900MHz ISM Band & Wireless LAN systems
- Point to multipoint & Non Line of Sight (NLOS) applications
- 900MHz Cellular and GSM
- RFID & SCADA
- LPWAN, LoRA, IoT, M2M

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

Plotted and Other Data

Notes:

900 MHz 9 dBi AI 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 AI Yagi Antenna FM51YA1009](#)

URL: <https://www.fairviewmicrowave.com/wide-antenna-9-dbi-gain-n-fm51ya1009-p.aspx>

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