Fairview Microwave

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FM51YA1005 DATA SHEET

5.8 GHz 16.5 dBi Yagi Antenna

The Fairview Microwave FM51YA1005 radome enclosed yagi antenna features high gain and a 30° beam width. It is ideally suited for directional and multipoint IEEE 802.11a/n WiFi and wireless LAN applications and other systems operating in the 5.8GHz ISM band.

The FM51YA1005 is enclosed within a UV-stable ABS radome for all-weather operation. Included with the antenna is a 60° tilt and swivel mast mount kit. This allows the installer to make accurate alignment over a wide range of pointing angles. The FM51YA1005 features a 10 inch (25.4mm) coax cable terminated with an N-Female connector. Additional connector type are available, please inquire when ordering for options.

Configuration	
Design	Yagi
Gain	16.5 to 16.5 dBi
Polarization	Vertical
Cable Length	10 in [254 mm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Ground

Electrical Specifications

Description	Min	Тур	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		16.5		dBi
Front to Back Ratio		18		dB
Input Power			100	Watts

Specifications by Frequency

Description	Band	1	Band 2	Ban	d 3	Band 4	Band 5	Units
Range	5.725-5.8	825						GHz
Gain	16.5							dBi
Horiz. Beam Width	30							Degrees
Vert. Beam Width	25							Degrees
Max Input Power	100							Watts

Mechanical Specifications

Radome Material

Size
Length
Width
Height
Mounting Mast Diameter
Weight

Mechanical Specification Notes:

ABS

13.9 in [353.06 mm] 2.6 in [66.04 mm] 4.6 in [116.84 mm] 1.6 to 2 in [40.64 to 50.80 mm] 0.818 lbs [371.04 g]



Features:

- Lightweight Superior performance YAGI Antenna
- All Weather Operation, UV Stable ABS Radome provides Protection
- 30° Beam Width Coverage
 Can be installed for either
- vertical or horizontal polarizationIncludes tilt and swivel

mast mount

Applications:

- 5.8GHz UNII applications
- 5.8GHz ISM applications
- 5.8GHz Wireless LAN systems
- Long-range Directional Applications
- Point to Point, Point to Multi-point Systems

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Radome material is weatherproof ABS.

Environmental Specifications

Temperature Operating Range

Wind Loading

-40 to +65 deg C 130 MPH [209.21 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

5.8 GHz 16.5 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: 5.8 GHz 16.5 dBi Yagi Antenna FM51YA1005

URL: https://www.fairviewmicrowave.com/single-antenna-16.5-dbi-gain-n-fm51ya1005-p.aspx

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