

2.4 GHz to 5.8 GHz Ultra-Wideband 8 dBi Log periodic Antenna

The Fairview Microwave® FM51LP1002 is a high performance ultra wide band log periodic antenna designed to operate from 2.3 GHz to 6.5 GHz. This Ultra-Wideband design eliminates the need to purchase different antennas for each frequency. This simplifies installation since the same antenna can be used for a wide array of wireless applications where wide coverage is desired. The broadband characteristics of the antenna enables it to operate over a very wide frequency rang with consistent gain. The FM51LP1002 is ideal for Distributed Antenna Systems, DAS. A DAS system is used to distribute signals operating in different frequency bands like 802.11ac or WiMAX throughout a building or area. This antenna features 8 dBi of gain and a 60 degree beam width.

The internal components of this antenna are enclosed within a UV-stable white fiberglass radome for all-weather operation. It is supplied with a swivel mast mount kit.

Configuration

Design	Log Periodic
Gain	8 to 8 dBi
Polarization	Vertical
Cable Type	Coax lead
Cable Length	9 in [228.6 mm]
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		8		dBi
Front to Back Ratio		20		dB
Input Power			50	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-6.5					GHz
Gain	8					dBi
Horiz. Beam Width	80					Degrees
Vert. Beam Width	60					Degrees
Max Input Power	50					Watts

Mechanical Specifications

Radome Material	Fiberglass
Size	
Length	6.21 in [157.73 mm]
Width	3.67 in [93.22 mm]
Height	1.33 in [33.78 mm]



Features:

- Ultra Wide Band design
- 2.3 to 6.5 GHz continuous coverage
- Ideal for use with multiband access points and routers
- Superior performance
- Compact size, low profile and easy to mount, 9 inch coax lead included

Applications:

- 802.11a/b/g/n and 802.11ac access points and routers
- 802.16 and 802.20 WiMAX applications
- Distributed Antenna Systems, DAS, Ultra Wide Band, UWB applications
- Homeland Security and Public Safety Services: Fire, Police, Security
- WiFi Systems

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Mounting Mast Diameter 1.5 to 1.9 in [38.10 to 48.26 mm]
Weight 0.532 lbs [241.31 g]

Mechanical Specification Notes:
Radome material is UV stable fiberglass

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

2.4 GHz to 5.8 GHz Ultra-Wideband 8 dBi Log periodic 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 to 5.8 GHz Ultra-Wideband 8 dBi Log periodic Antenna FM51LP1002](#)

URL: <https://www.fairviewmicrowave.com/wide-antenna-8-dbi-gain-n-fm51lp1002-p.aspx>

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