

## 6 dBi Omni Antenna 2.4-2.5 GHz, 5.1-5.8 GHz, N Type Female PVC Radome, 1.6:1 Max VSWR, 2 Port

The Fairview Microwave FM510M1009 is a professional high gain dual band/dual polarity omnidirectional base station antenna designed and optimized for 2.4 and 5 GHz frequencies. This antenna is ideally suited for multipoint applications where long range and wide coverage is desired.

The FM510M1009 is actually two antennas in one, a 2.4/5 GHz horizontal polarized antenna and a 2.4/5 GHz vertical polarized antenna together in a single radome. Each polarization features separate dual band feeds, two N-Female connectors in total. This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radio transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.

The FM510M1009 construction features a heavy-duty UV resistant PVCs radome for durability and aesthetics. Designed to operate in the harshest of environments, the FM510M1009 far exceeds other omnidirectional antennas. The included mounting system features twin heavy-duty mounting clamps and bolts for superior strength.

### Configuration

Design	Omni
Gain	6 to 6 dBi
Polarization	Vertical/Horizontal
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		5,800	MHz
Input VSWR			1.6:1	
Impedance		50		Ohms
Gain		6		dBi
Isolation	28			dB
Input Power			100	Watts

### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-2.5	5.1-5.8				GHz
Gain	6					dBi
Horiz. Beam Width	360	360				Degrees
Vert. Beam Width	25	25				Degrees
VSWR	1.6:1	1.9:1				
Max Input Power	100	100				Watts

### Mechanical Specifications

Radome Material

PVC



### Features:

- 2.4/5 GHz IEEE 802.11a/b/g and 802.11ac applications
- Supports 1x2 and 2x2 MIMO AP/Routers
- WiMax, WISP and WiFi applications
- Wireless video systems
- Point-to-multipoint applications

### Applications:

- MIMO - Multiple-Input and Multiple-Output
- Dual polarity/dual frequency feed system in single enclosure
- Separate inputs horizontal and vertical polarization
- UV-Resistant radome for all-weather operation
- Heavy duty industrial grade design

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Size**

Length	29.4 in [746.76 mm]
Width	3.1 in [78.74 mm]
Height	3.1 in [78.74 mm]
Mounting Mast Diameter	1.6 to 3.5 in [40.64 to 88.90 mm]
Weight	2.576 lbs [1.17 kg]

Mechanical Specification Notes:  
 Radome material is UV resistant PVC.

**Environmental Specifications**

**Temperature**

Operating Range	-40 to +60 deg C
Wind Loading	130 MPH [209.21 KPH]

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

**Plotted and Other Data**

Notes:

6 dBi Omni Antenna 2.4-2.5 GHz, 5.1-5.8 GHz, N Type Female PVC Radome, 1.6:1 Max VSWR, 2 Port 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: [6 dBi Omni Antenna 2.4-2.5 GHz, 5.1-5.8 GHz, N Type Female PVC Radome, 1.6:1 Max VSWR, 2 Port FM51OM1009](#)

URL: <https://www.fairviewmicrowave.com/6-dbi-omni-antenna-2.4-2.5-ghz-5.1-5.8-ghz-n-tyfm-female-1.6-1-max-vswr-2-port-fm51om1009-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

