

4-6 dBi Omni Antenna 2.4-2.5 GHz, 4.9-5.85 GHz, SMA Plug ABS Radome, 1.65:1 Typ VSWR, 4 Port

The Fairview Microwave FM510M1012 is a compact dual band omni-directional antenna specifically designed for MIMO (Multiple In / Multiple Out) applications. Unlike typical pole style omni-directional antennas, the FM510M1012 features a compact and unobtrusive UV resistant radome. Its modern design and aesthetics helps it blend into almost any environment or structure.

The FM510M1012 operates on both 2.4 GHz and 5.8 GHz frequencies. It is ideal for use with 4x4 MIMO radios since the FM510M1012 features four separate 3 foot antennas leads terminated with RP-SMA Plug connectors. Each lead is dual band and supports both 2.4 GHz and 5.8 GHz. This antenna's construction features a durable UV resistant ABS radome for durability and ruggedness. Its mounting system features a heavy-duty mounting bracket and U-Bolts for superior strength.

Configuration

Design	Omni
Gain	4 to 4 dBi
Polarization	Vertical
Cable Length	34.8 in [883.92 mm]
Connector Type	SMA Plug Reverse Polarity
Interface 2	SMA Plug Reverse Polarity
Interface 3	SMA Plug Reverse Polarity
Interface 4	SMA Plug Reverse Polarity
Number of Ports	4
Lightning Protection	DC Ground

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		5,850	MHz
Input VSWR		1.65:1	1.8:1	
Impedance		50		Ohms
Gain		4		dBi
Input Power			10	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4-2.5	4.9-5.85				GHz
Gain	4	6				dBi
Horiz. Beam Width	360	360				Degrees
Vert. Beam Width	50	45				Degrees
Max Input Power	10					Watts

Mechanical Specifications

Radome Material	ABS
Size	
Radome Diameter	7.3 in [185.42 mm]
Length	7.3 in [185.42 mm]
Width	7.3 in [185.42 mm]



Features:

- Point-to-multipoint applications
- All weather operation
- Heavy duty steel mounting bracket
- Four dual band inputs via 3 foot antenna leads with RP-SMA Plug connectors
- Compact design

Applications:

- IEEE 802.11a/b/g/n and 802.11ac wireless networks
- 5.8 GHz UNII and ISM applications
- 4.9 GHz Homeland Security and Public Safety band
- 2x2, 3x3 and 4x4 MIMO applications
- Point-to-multipoint applications

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Height 4 in [101.6 mm]
Mounting Mast Diameter 1.4 to 2 in [35.56 to 50.80 mm]
Weight 1.316 lbs [596.93 g]

Mechanical Specification Notes:
Radome material is UV resistant ABS.

Environmental Specifications

Temperature

Operating Range -40 to +60 deg C

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

Plotted and Other Data

Notes:

4-6 dBi Omni Antenna 2.4-2.5 GHz, 4.9-5.85 GHz, SMA Plug ABS Radome, 1.65:1 Typ VSWR, 4 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: [4-6 dBi Omni Antenna 2.4-2.5 GHz, 4.9-5.85 GHz, SMA Plug ABS Radome, 1.65:1 Typ VSWR, 4 Port FM51OM1012](#)

URL: <https://www.fairviewmicrowave.com/4-dbi-omni-antenna-2.4-2.5-ghz-4.9-5.85-ghz-sma-plug-1.65-1-typ-vswr-4-port-fm51om1012-p.aspx>

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