

6-6 dBi Omni Antenna 2.4-2.5 GHz, 5.1-5.9 GHz, N Type Female PVC Radome, 4 Port

The Fairview Microwave FM510M1006 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 DPU series stands out from the competition since they are true 360 degree omni directional antennas which feature patent pending technology.

The FM510M1006 is actually four antennas in one, a 2.4 GHz dual polarized antenna and a 5 GHz dual polarized antenna together in a single radome. Each frequency features separate feeds for both horizontal and vertical polarities, four N-Female connectors 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 FM510M1006 construction features a heavy-duty UV resistant PVC radome for durability and aesthetics. Designed to operate in the harshest of environments, the FM510M1006 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
Interface 3	N Female
Interface 4	N Female
Number of Ports	4
Lightning Protection	DC Ground

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		5,900	MHz
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	5.1-5.9				GHz
Gain	6	6				dBi
Horiz. Beam Width	360	360				Degrees
Vert. Beam Width	25	25				Degrees
VSWR	1.6:1	1.8:1				
Max Input Power	250	100				Watts



Features:

- True 360 degree omni directional antennas which feature patent pending technology
- Dual polarity
- dual frequency feed system in single enclosure
- MIMO - Multiple-Input and Multiple-Output, separate inputs for 2.4 GHz and 5 GHz - four connectors total
- UV-Resistant radome for all-weather operation
- Heavy duty industrial grade design

Applications:

- 2.4/5 GHz IEEE 802.11a/b/g and 802.11ac applications
- Supports 1x2, 2x2 and 4x4 MIMO AP/Routers
- WiMax, WISP and WiFi applications
- Wireless video systems
- Point-to-multipoint applications

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Mechanical Specifications

Radome Material	PVC
Size	
Radome Diameter	2.9 in [73.66 mm]
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	2.844 lbs [1.29 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

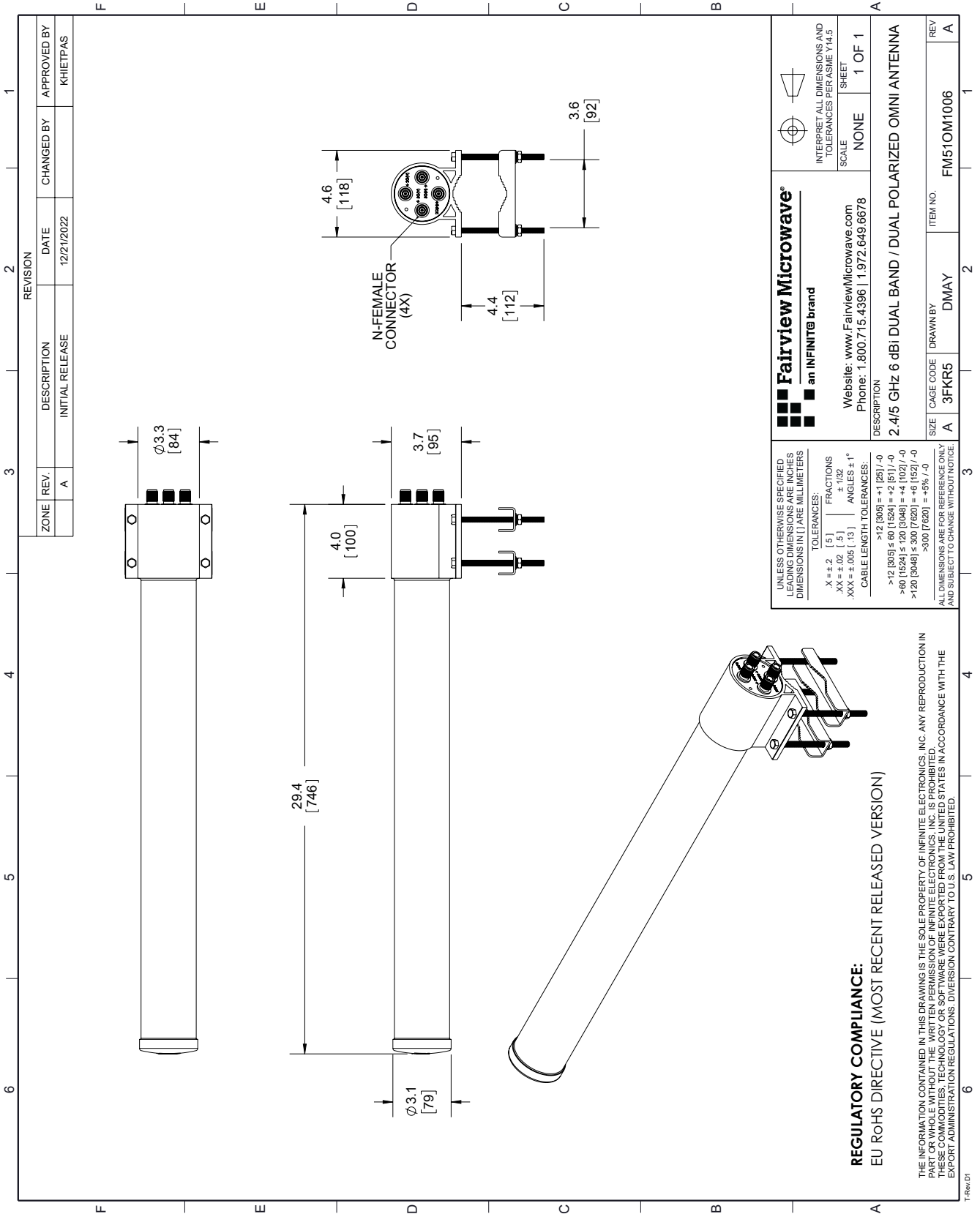
Notes:

6-6 dBi Omni Antenna 2.4-2.5 GHz, 5.1-5.9 GHz, N Type Female PVC Radome, 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: [6-6 dBi Omni Antenna 2.4-2.5 GHz, 5.1-5.9 GHz, N Type Female PVC Radome, 4 Port FM510M1006](#)

URL: <https://www.fairviewmicrowave.com/6-dbi-omni-antenna-2.4-2.5-ghz-5.1-5.9-ghz-n-tyfm-female-4-port-fm510m1006-p.aspx>

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 Fairview Microwave an INFINIT [®] brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		DESCRIPTION: 2.4/5 GHz 6 dBi DUAL BAND / DUAL POLARIZED OMNI ANTENNA
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. TOLERANCES: .X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [.5] ANGLES ± 1° .XXX = ±.005 [.13] CABLE LENGTH TOLERANCES: >12 [305] = ±1 [25] / -0 >12 [305] ≤ 60 [1524] = ±2 [51] / -0 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±6 [152] / -0 >300 [7620] = ±5% / -0	SIZE: A CAGE CODE: 3FKR5 DRAWN BY: DMAY ITEM NO.: FM510M1006 REV: A	

REGULATORY COMPLIANCE:
 EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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