

### 7-8 dBi Omni Antenna 2.4-2.5 GHz, 4.9-5.85 GHz, N Type Female Fiberglass Radome, 2.5:1 Max VSWR

The Fairview Microwave brand FM510M1003 is an economical yet high performance dual band omnidirectional antenna designed for operation in the 2.4 GHz and 4.9/5.8 GHz frequency bands. Compact and lightweight, these antennas are ideally suited multipoint applications where wide coverage is desired.

The FM510M1003 antennas feature an integral N-Female bulkhead type connector that can mount through the wall of an equipment enclosure. Also included is a mast mounting kit which consists of a heavy-duty steel bracket and a pair of U-bolts. This kit allows for installations on masts up to 2.0" in diameter. A vented end cap and drain holes in the base help prevent moisture build-up inside the antenna. These features allow the antenna to be mounted in up or down positions.

#### Configuration

Design	Omni
Gain	7 dBi
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		5,850	MHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Input Power			50	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	7	8				dBi
Horiz. Beam Width	360					Degrees
Vert. Beam Width	20					Degrees
Max Input Power	50					Watts

#### Mechanical Specifications

Radome Material	Fiberglass
<b>Size</b>	
Base Diameter	1.27 in [32.26 mm]
Radome Diameter	0.75 in [19.05 mm]
Length	19.5 in [495.3 mm]
Width	1.3 in [33.02 mm]
Height	1.3 in [33.02 mm]
Mounting Mast Diameter	2 in [50.80 mm]
Weight	0.748 lbs [339.29 g]



#### Features:

- High performance in a compact lightweight design
- Durable UV-Stable fiberglass radome with vented end cap and drain holes in base
- All weather operation
- Integral N-Female connector
- Includes mast mounting kit

#### Applications:

- 2.4/4.9/5.1/5.3/5.4/5.8 GHz Wireless LAN systems
- IEEE 802.11a/b/g/n and 802.11ac compatible
- Homeland Security and Public Safety band
- WiMAX and WiFi applications
- Multipoint and mobile applications

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## Environmental Specifications

### Temperature

Operating Range -40 to +85 deg C

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

## Plotted and Other Data

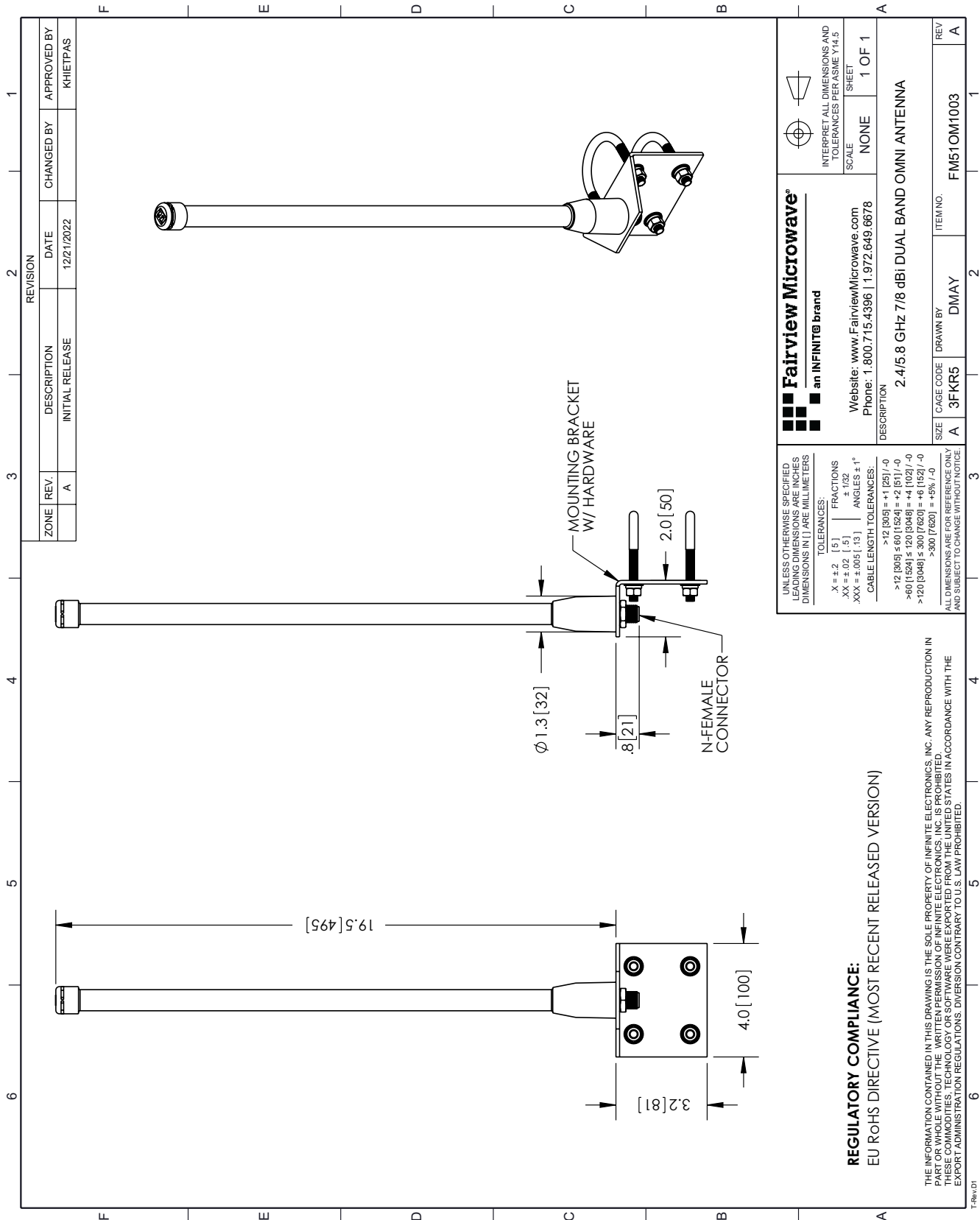
Notes:

7-8 dBi Omni Antenna 2.4-2.5 GHz, 4.9-5.85 GHz, N Type Female Fiberglass Radome, 2.5:1 Max VSWR 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: [7-8 dBi Omni Antenna 2.4-2.5 GHz, 4.9-5.85 GHz, N Type Female Fiberglass Radome, 2.5:1 Max VSWR FM510M1003](#)

URL: <https://www.fairviewmicrowave.com/7-dbi-omni-antenna-2.4-2.5-ghz-4.9-5.85-ghz-n-tyfm-female-2.5-1-max-vswr-fm510m1003-p.aspx>

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REVISION		DATE	APPROVED BY
ZONE	REV.	DESCRIPTION	CHANGED BY
	A	INITIAL RELEASE	KHIETPAS

SCALE	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SHEET
NONE		1 OF 1

Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
Phone: 1.800.715.4396 | 1.972.649.6678

DESCRIPTION  
2.4/5.8 GHz 7/8 dBi DUAL BAND OMNI ANTENNA

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	DMAY	FM510M1003	A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DECIMAL DIMENSIONS IN LARGE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [.5]      ANGLES ± 1°  
 .XXX = ±.005 [.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] = ±1 [25] / -0  
 >60 [1524] ≤ 60 [1524] = +2 [51] / -0  
 >120 [3048] ≤ 120 [3048] = +4 [102] / -0  
 >300 [7620] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

**REGULATORY COMPLIANCE:**  
EU ROHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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