

## 2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector

The FM510M1051 from the Fairview Microwave antenna is high performance outdoor omnidirectional antenna specifically designed for cellular networks. This FM510M1051 outdoor antenna is an economically rugged omnidirectional antenna that provides high reliability due to its fiberglass radome. This Omni antenna has a 12 dBi gain and 2400 to 2500 MHz frequency range that offers great coverage for rural areas or difficult-to-cover areas.

The 2400 to 2500 MHz frequency range omnidirectional antenna has coverage of Wi-Fi, CBRS bands 4G, LTE, 5G, and CBRS bands. The FM510M1051 omnidirectional antenna has vertical polarization with a cable length of 47.244 inches. All the components in the omnidirectional fiberglass antenna is DC grounded for lightning protection.

The 12 dBi high gain omnidirectional outdoor-rated antenna has 360 degrees of coverage to offer range extension and simple deployment to build Wi-Fi and cellular communication networks. This 2400 to 2500 MHz Omni antenna has N-type Female connectors that makes installation easy and fast allowing for rapid time to on air activation. The versatile N-type Female connector option in the Omni antenna allows direct connections to the radios and is fit where high coverage is required and traditional base station antennas are too bulky.

Fairview Microwave has a stock of FM510M1051 antenna with same-day shipping. The weatherproof fiberglass omnidirectional antenna has 100 W maximum power handling capability and covers all telecom needs. For further information on similar products, search this website or contact our expert technical support who would be happy to guide you to the perfect 2400 to 2500 MHz, 12 dBi gain omnidirectional antenna for your requirement.

### Configuration

Gain	12
Polarization	Vertical
Connector Type	N Male
Number of Ports	1

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		2,500	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		12		dB
Input Power			100	Watts

### Mechanical Specifications

Radome Material	Fiberglass
<b>Size</b>	
Length	50 in [127 cm]
Width	2 in [50.8 mm]
Height	2 in [50.8 mm]
Mounting Mast Diameter	1.57 to 1.96 in [39.88 to 49.78 mm]
Weight	7.2 lbs [3.27 kg]

### Features:

- All weather operation
- Lightweight fiberglass radome
- Integral N-Male connector
- Commercial grade design
- 360° Omnidirectional Pattern

### Applications:

- 2400 Band Operation
- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 12 dBi gain

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**Environmental Specifications**

**Temperature**

Operating Range -40 to +70 deg C

Wind Loading 124.274 MPH [200 KPH]

Humidity 5 to 95

Ingress Protection IP67

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

**Plotted and Other Data**

Notes:

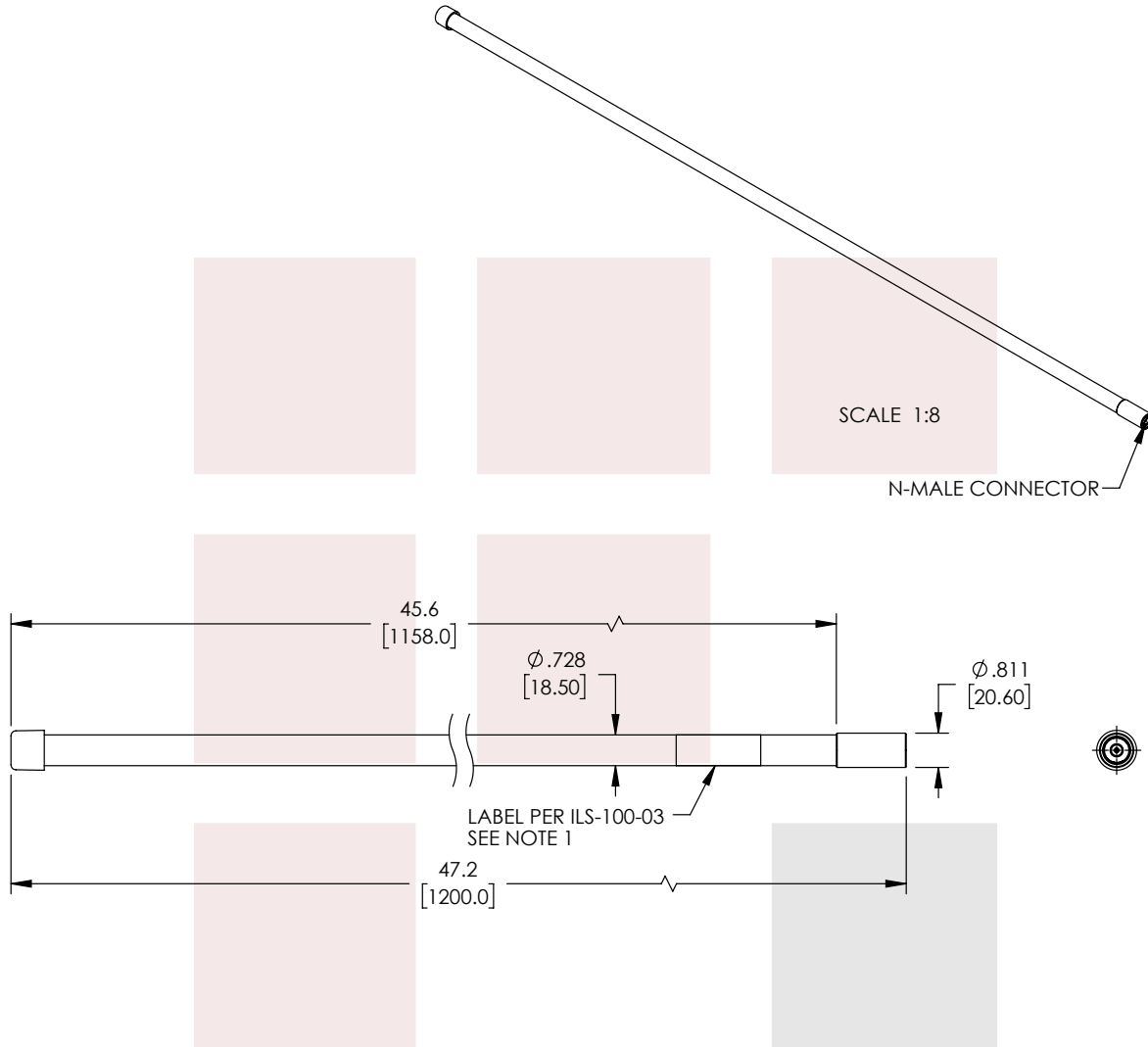
2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector FM51OM1051](#)

URL: <https://www.fairviewmicrowave.com/2400-2500-mhz-12dbi-omnidirectional-fiberglass-antenna-n-male-connector-fm51om1051-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/23/2022	WZHANG



- NOTES:  
1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE  2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector	.X = ±.2 [5.08] FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
	.XX = ±.02 [.51] ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	SHEET 1 OF 1	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			SCALE N/A	
SIZE A	CAGE CODE 3FKR5	DRAWN BY WZHANG	ITEM NO. FM510M1051	REV A

T-Rev.D