

12 dBi Omni Antenna 3,300-3,800 MHz N Type Connector

The 5G / LTE outdoor omnidirectional FM510M1049 antenna from Fairview Microwave is a high performance RF component which operates from 3300 to 3800 MHz. The FM510M1049 antenna is ideal for 5G, LTE, 4x4 MIMO applications in CBRS band. The Multi-Band design of the Fairview Microwave FM510M1049 antenna can be used for a wide array of cellular telecommunication wireless applications where wide coverage is desired. Fairview Microwave's FM510M1049 can be used to distribute Cellular signals throughout an outdoor area.

The 4 port Type N connectorized FM510M1049 antenna with Dual Slant ($\pm 45^\circ$) polarization from Fairview Microwave provides excellent outdoor coverage for all base station applications. The Type N connectorized FM510M1049 antenna from Fairview Microwave excels in large open areas. The mounting bracket and hardware are included for easy installation. Fairview Microwave 5G / LTE outdoor omnidirectional with Type N female purchases will ship the same day. Our FM510M1049 antenna is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide.

Configuration

Design	Omni
Polarization	± 45 Deg. Slant
Connector Type	N Female
Number of Ports	4
Lightning Protection	DC Ground

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	3,300		3,800	MHz
Input VSWR		2:1		
Impedance		50		Ohms
Gain		12		dBi
Isolation		17		dB
Horizontal (Azimuth) Beam Width		60		Degrees
Vertical (Elevation) Beam Width		7		Degrees
Input Power			50	Watts

Mechanical Specifications

Radome Material	UV Resistance PVC
Size	
Length	31.5 in [800.1 mm]
Width	4.7 in [119.38 mm]
Height	4.7 in [119.38 mm]
Mounting Mast Diameter	1.57 to 2.36 in [39.88 to 59.94 mm]
Weight	6.4 lbs [2.9 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +65 deg C
Wind Loading	210 MPH [337.96 KPH]



Features:

- All weather operation
- ± 45 Slant
- 4x4 MIMO
- UV Resistance PVC Radome
- N-Female connectors
- 360° Omnidirectional Pattern

Applications:

- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 13 dBi gain
- 3500, LTE, and CBRS Cellular Band Operation

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

Plotted and Other Data

Notes:

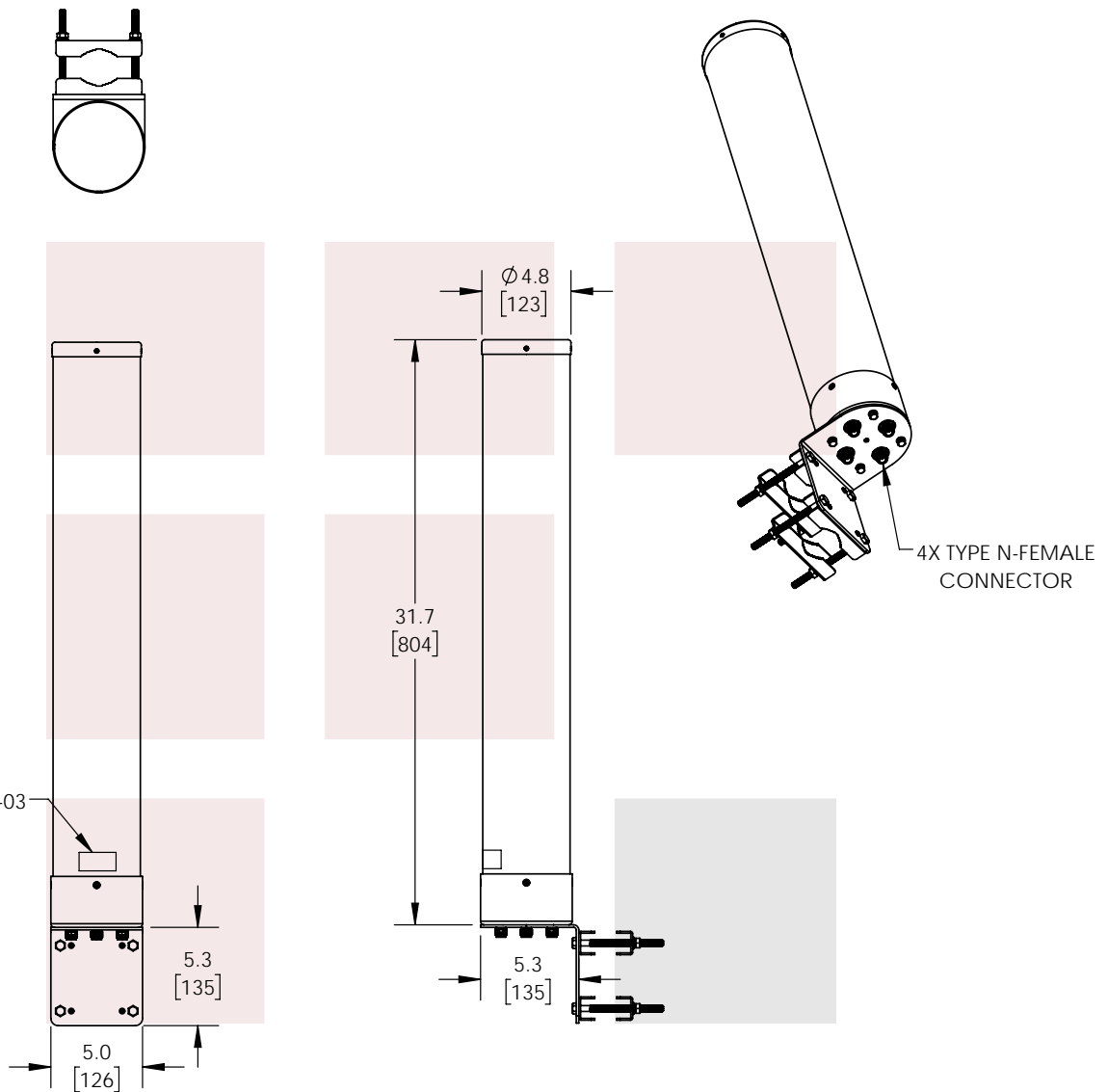
12 dBi Omni Antenna 3,300-3,800 MHz N Type Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [12 dBi Omni Antenna 3,300-3,800 MHz N Type Connector FM510M1049](#)

URL: <https://www.fairviewmicrowave.com/antenna-12-dbi-n-female-fm510m1049-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/04/2021	KHIETPAS



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

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TITLE
12 dBi Omni Antenna 3,300-3,800 MHz N Type Connector

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

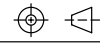
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FM510M1049	REV A
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T-Rev.D