WiFi 6e, 2400-2500/5150-7250 MHz 6/6 dBi, 4x4 MIMO Omni, N Female

FMANOM1162

Features

- N Female Connector
- Outdoor Rated Omnidirectional Antenna
- 4 x Vertical Polarization
- 4x4 MIMO Functionality
- 2.4 GHz, 5 GHz, 6 GHz WiFi Bands
- 6 dBi gain

Applications

- Infotainment systems, Routers, WiFi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- WiFi 6e (802.11ax) networks
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- IoT, Industrial IoT, Zigbee, Bluetooth, WiFi

Description

The FMANOM1162 WiFi 6e 4x4 MIMO Omni Antenna from Fairview Microwave is a high performance omnidirectional antenna designed for the 2400 MHz to 7125 MHz bands and is available to ship same day. It features 4 (four) pigtails terminated with Type N Female connectors for 4X4 MIMO applications. It is a UV protected, outdoor rated antenna with omni-directional pattern. The FMANOM1162 is ideally suited for 802.11 protocols including 802.11ax as well as IoT, Zigbee and Bluetooth.

The Fairview Microwave high performance omni FMANOM1162 is a rugged antenna providing broad coverage, low latency, increased network capacity and 6 dBi gain. This 4 port N Type Female omnidirectional antenna is suitable for commercial radios and access points in public and private networks that are equipped with N Male connectors. Fairview Microwave's FMANOM1162 supports 2.4, 5 and 6 GHz bands.

This WiFi 6e FMANOM1162 omni antenna with 4 N Type Female connectors, as well as our wide selection of superior quality RF parts, ships same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Fairview Microwave products.

Configuration

Design	Omni
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	RG58/U
Connector Type	N Female
Number of Ports	4

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		7,250	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	2.4 to 2.5	5.15 to 7.25				GHz
Gain	6	6				dBi

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Horizontal HPBW	360	360				Degrees
Vertical HPBW	45	30				Degrees

Mechanical Specifications

Radome Material	UV Resistant ABS
Size	
Length	0 in [0 mm]
Width	0 in [0 mm]
Height	0 in [0 mm]
Mounting Mast Diameter	1.57 to 1.96 in [39.88 to 49.78 mm]
Weight	2.64 lbs [1.2 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	124 MPH [199.56 KPH]
Humidity	5 to 95 %
Ingress Protection	IP54

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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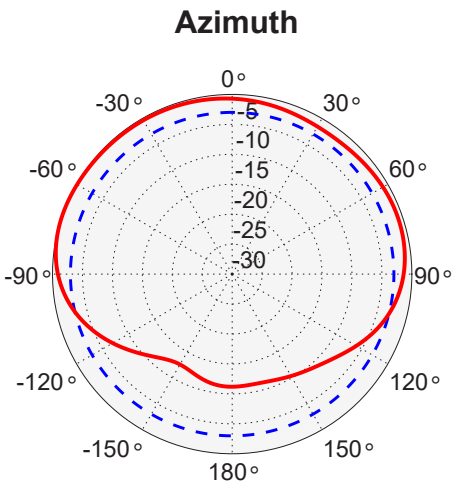
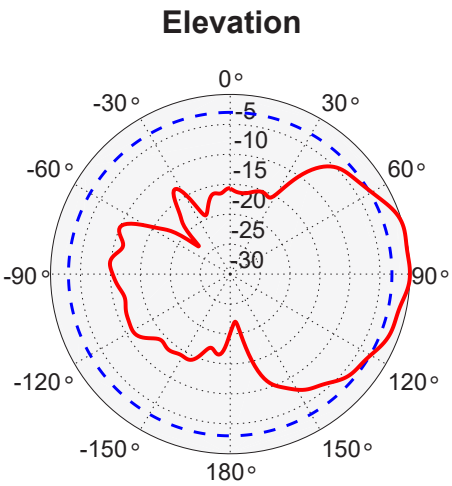
Typical Radiation Pattern

Radiation Patterns of 2450 MHz





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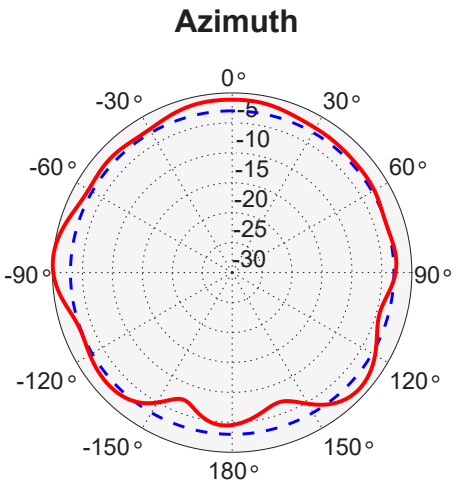
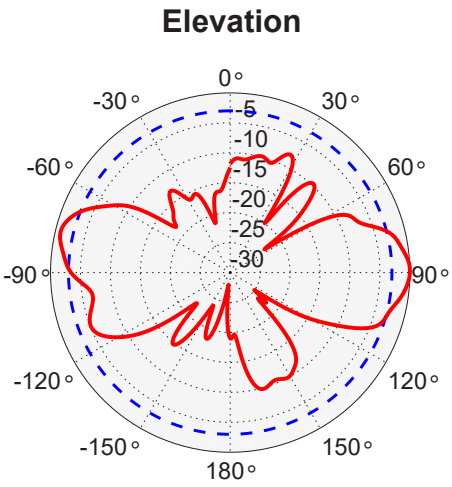
Radiation Patterns of 5550 MHz





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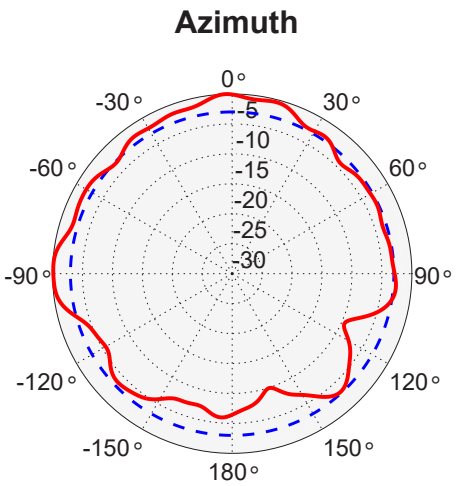
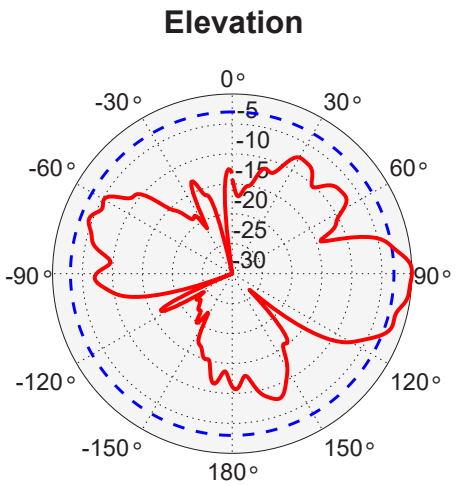
Radiation Patterns of 7125 MHz





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Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

WiFi 6e, 2400-2500/5150-7250 MHz 6/6 dBi, 4x4 MIMO Omni, N Female 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: WiFi 6e, 2400-2500/5150-7250 MHz 6/6 dBi, 4x4 MIMO Omni, N Female FMANOM1162

URL: https://www.fairviewmicrowave.com/product/antennas/dbi-multiband-mimo-omni-antenna-2400-7250-mhz-n-type-connector-fmanom1162.html

FMANOM1162 CAD Drawing

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