

WiFi 6e, 2400-2500/5150-7250 MHz
6/6 dBi, 6x6 MIMO Omni, RP-TNC

FMANOM1169



Features

- Reverse Polarity TNC (RP-TNC) Male Connector
- 6 x Vertical Polarization
- 6x6 MIMO Functionality
- Outdoor Rated Omnidirectional Antenna
- 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
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- WiFi 6e (802.11ax) networks
- IoT, Industrial IoT, Zigbee, Bluetooth, WiFi

Description

The FMANOM1169 WiFi 6e 6x6 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 6 (six) pigtails terminated with Reverse Polarity TNC (RP-TNC) Male connectors for 6x6 MIMO applications. It is a UV protected, outdoor rated antenna with omni-directional pattern. The FMANOM1169 is ideally suited for 802.11 protocols including 802.11ax as well as IoT, Zigbee and Bluetooth.

The Fairview Microwave high performance omni FMANOM1169 is a rugged antenna providing broad coverage, low latency, increased network capacity and 6 dBi gain. This RP-TNC male omnidirectional antenna is suitable for commercial radios and access points in public and private networks that are equipped with RP-TNC female connectors. Fairview Microwave's FMANOM1169 supports 2.4, 5 and 6 GHz bands.

This WiFi 6e FMANOM1169 omni antenna with 6 RP-TNC male 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	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	RG58/U
Connector Type	TNC Male Reverse Polarity
Number of Ports	6

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	3.52 lbs [1.6 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:

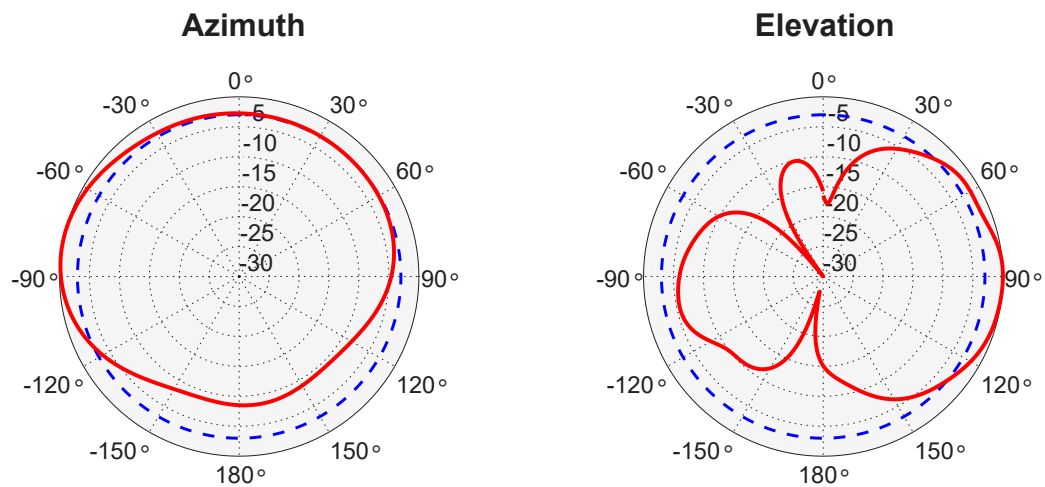
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Typical Radiation Pattern

Radiation Patterns of 2450 MHz

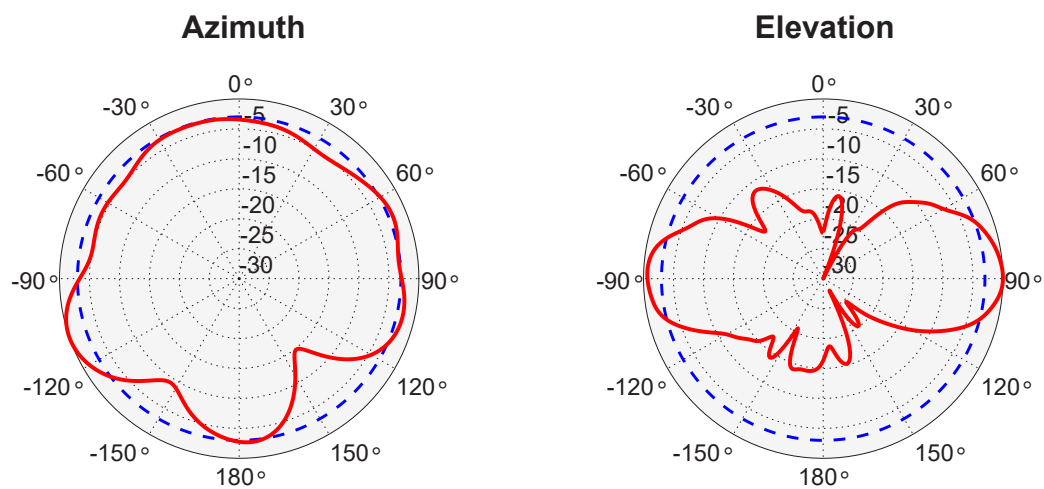


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Radiation Patterns of 5550 MHz

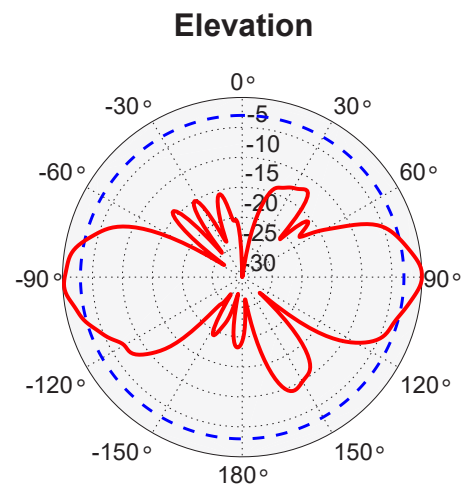
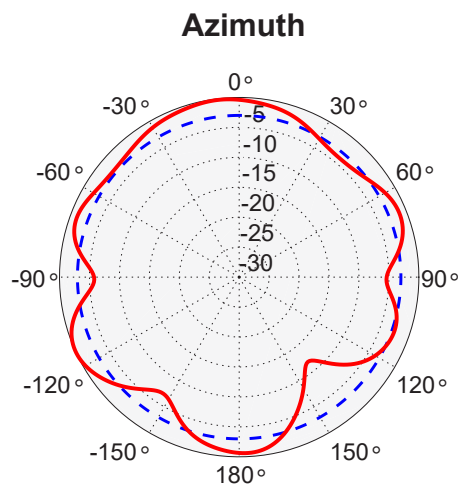


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Radiation Patterns of 6500 MHz



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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, 6x6 MIMO Omni, RP-TNC 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, 6x6 MIMO Omni, RP-TNC FMANOM1169](https://www.fairviewmicrowave.com/product/antennas/dbi-dualband-mimo-omni-antenna-2400-7250-mhz-tnc-connector-fmanom1169.html)

URL: <https://www.fairviewmicrowave.com/product/antennas/dbi-dualband-mimo-omni-antenna-2400-7250-mhz-tnc-connector-fmanom1169.html>

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FMANOM1169 CAD Drawing

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