

FMANOM1166

Features

- · N Female Connector
- · 6 x Vertical Polarization
- 6x6 MIMO Functionality

Applications

- Infotainment systems, Routers, WiFi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- WiFi 6e (802.11ax) networks

- Outdoor Rated Omnidirectional Antenna
- 2.4 GHz, 5 GHz, 6 GHz WiFi Bands
- 6 dBi gain
- · Connected cars or self-driving cars, Fleet management, Logistics
- · Public Safety Networks
- · IoT, Industrial IoT, Zigbee, Bluetooth, WiFi

Description

The FMANOM1166 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 Type N Female connectors for 6x6 MIMO applications. It is a UV protected, outdoor rated antenna with omni-directional pattern. The FMANOM1166 is ideally suited for 802.11 protocols including 802.11ax as well as IoT, Zigbee and Bluetooth.

The Fairview Microwave high performance omni FMANOM1166 is a rugged antenna providing vertical polarization, broad coverage, low latency, increased network capacity and 6 dBi gain. This 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 FMANOM1166 supports 2.4, 5 and 6 GHz bands.

This WiFi 6e FMANOM1166 omni antenna with 6 RP-N 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
Band Type
Radiation Pattern
Polarization
Cable Type
Connector Type

Number of Ports

Omni Dual

Omni Directional

Vertical RG58/U N Female

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
Range	2.4 to 2.5	5.15 to 7.25				GHz
Bandwidth	100	2.1				



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Gain	6	6				dBi
Horizontal HPBW	360	360				
Vertical HPBW	45	30				Degrees

Mechanical Specifications

Radome Material UV Resistant ABS

Size

 Length
 7.1 in [180.34 mm]

 Width
 5.94 in [150.88 mm]

 Height
 5.94 in [150.88 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

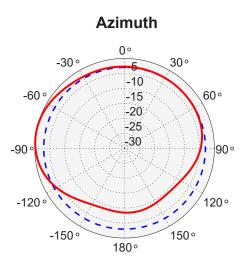
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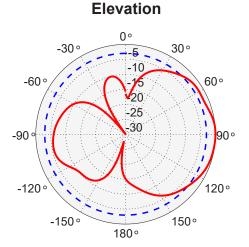


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Typical Radiation Pattern

Radiation Patterns of 2450 MHz



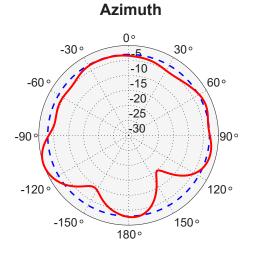




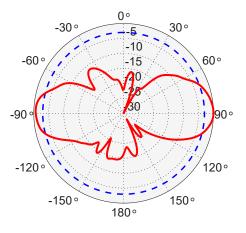
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Radiation Patterns of 5550 MHz



Elevation



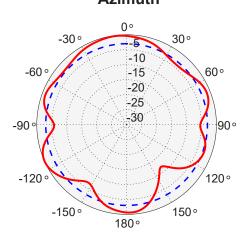


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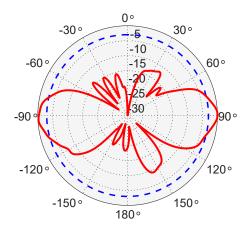


Radiation Patterns of 6500 MHz

Azimuth



Elevation





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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.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

WiFi 6e, 2400-2500/5150-7250 MHz 6/6 dBi, 6x6 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, 6x6 MIMO Omni, N-Female FMANOM1166

URL: https://www.fairviewmicrowave.com/dbi-dualband-mimo-omni-antenna-2400-7250-mhz-n-type-connector-fmanom1166-p.aspx

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