

WiFi 6, 2400-2500/5150-5850 MHz 6/6 dBi,
8x8 MIMO Panel, RP-TNC Male

FMANFP1077



Features

- Reverse Polarity TNC (RP-TNC) Male Connector
- Outdoor Rated Panel Antenna
- 4 x Vertical + 4 x Horizontal Polarization
- 8x8 MIMO Functionality
- 2.4 GHz, 5 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
- WiFi 6 (802.11ax) networks
- IoT, Zigbee, Bluetooth, WiFi

Description

The FMANFP1077 WiFi 6 8x8 MIMO Flat Panel Antenna from Fairview Microwave is a high performance directional antenna designed for the 2400 MHz to 5800 MHz bands and is available to ship same day. It features 8 (eight) pigtailed terminated with Reverse Polarity TNC (RP-TNC) connectors for 8x8 MIMO applications. It is a UV protected, outdoor rated antenna with 60 degree horizontal half power beamwidth. The FMANFP1077 is ideally suited for WiFi Hotspots (IEEE 802.11ax/ac/n/b/g) as well as IoT, Zigbee and Bluetooth.

The Fairview Microwave high performance flat panel FMANFP1077 is a rugged antenna providing broad coverage, low latency, increased network capacity and 6 dBi gain. This 8 port RPTNC Plug flat panel directional antenna is suitable for commercial radios and access points in public and private networks that are equipped with RPTNC connectors. Fairview Microwave's FMANFP1077 supports 2.4 and 5 GHz bands.

This WiFi 6 FMANFP1077 60 degree flat panel antenna with 8 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	Flat Panel
Band Type	Dual
Radiation Pattern	Directional
Polarization	Vertical and Horizontal
Cable Type	RG58
Connector Type	TNC Male Reverse Polarity
Number of Ports	8

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,850	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Port to Port Isolation	30			dB
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 5.85				GHz

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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	65	55				Degrees
Vertical HPBW	65	60				Degrees
Front to Back Ratio	20	20				

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 2.36 in [39.88 to 59.94 mm]
Weight	4.62 lbs [2.1 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	100 MPH [160.93 KPH]
Humidity	5 to 95 %

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

Plotted and Other Data

Notes:

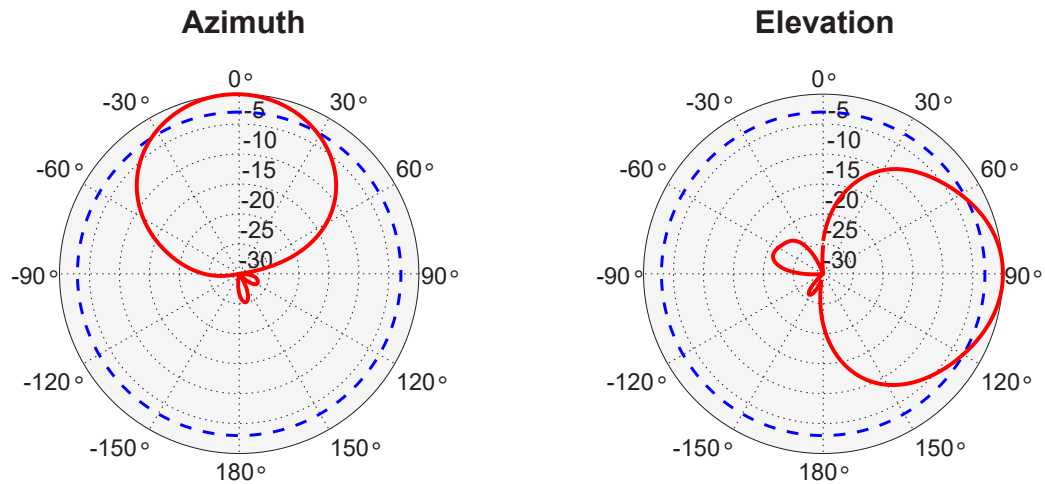
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Typical Radiation Pattern

Radiation Patterns of 2450 MHz

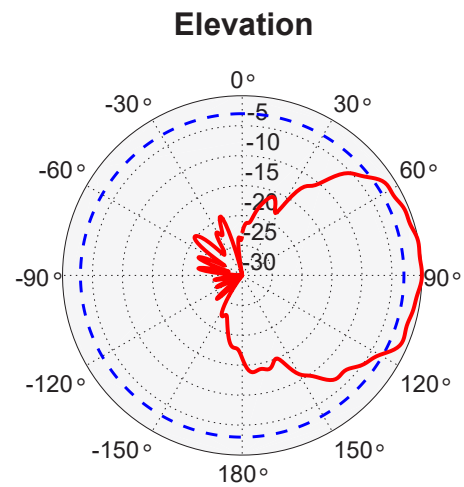
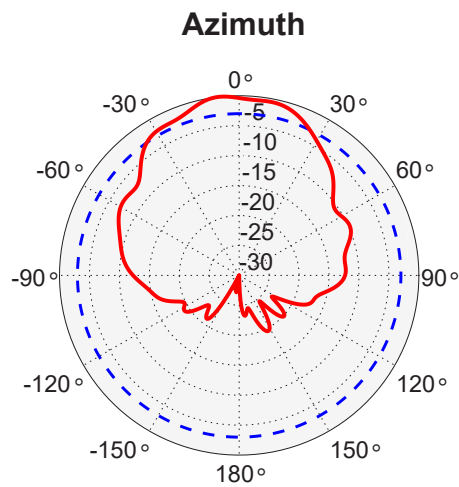


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Radiation Patterns of 5550 MHz



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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 6, 2400-2500/5150-5850 MHz 6/6 dBi, 8x8 MIMO Panel, RP-TNC Male 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 6, 2400-2500/5150-5850 MHz 6/6 dBi, 8x8 MIMO Panel, RP-TNC Male FMANFP1077](https://www.fairviewmicrowave.com/product/antennas/dbi-dualband-mimo-flat-panel-antenna-2400-5850-mhz-tnc-connector-fmanfp1077)

URL: <https://www.fairviewmicrowave.com/product/antennas/dbi-dualband-mimo-flat-panel-antenna-2400-5850-mhz-tnc-connector-fmanfp1077.html>

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FMANFP1077 CAD Drawing
 WiFi 6, 2400-2500/5150-5850 MHz 6/6 dBi, 8x8 MIMO Panel, RP-TNC Male

