

4950 MHz to 6500 MHz, Flat panel Antenna,  
8x8 MIMO, 18 dBi, N Female

**KP-6DPFP18-8NF**



**Features**

- 8-port Flat panel antenna
- 4950 to 6500 MHz, 18 dBi
- VSWR < 2:1
- All aluminum material
- Dual slant (V/H or ±45°)
- 50 W max input power per port
- 8 x N type female connectors
- DC ground

**Applications**

- Indoor or outdoor
- Point to point data links (PtP)
- Point to multi-point data links (PtMP)
- Wi-Fi 5, Wi-Fi 6
- Unlicensed 5GHz and 6GHz bands
- 5G bands - n46, n47, n96, n102
- 2x2, 4x4, 8x8 MIMO capability
- High speed internet access

**Description**

The KP Performance KP-6DPFP18-8NF flat panel antenna is ideal for point to point applications where form factor is a concern. It has a frequency range of 4950 to 6500 MHz, providing stability over a wide bandwidth to support gigabit transmissions and has operating temperature ranging from -40°C to 70°C (-32°F to 158°F). This antenna has a 18 dBi high gain, which describes electrical power conversion capability.

The KP Performance KP-6DPFP18-8NF flat panel antenna has an N female connector capable of carrying microwave frequencies used to join coaxial cables. This point to point antenna has a 50 Ohms impedance and is highly directional, which means it receives greater power in a specific direction. This antenna features dual slant (V/H or ±45°) polarization, which makes them compatible with any single or dual polarized 8 x 8 MIMO radio and eliminates the risk of link strength degradation due to polarization mismatch.

KP Performance KP-6DPFP18-8NF white flat panel antenna has less than 2.5 VSWR (Voltage Standing Wave Ratio) that results in the best power transfer and reduced losses. It has 50 W maximum power per port within which it has the ability to perform without damage. This antenna has dc ground lightning protection to protect the system from damage due to lightning strikes.

This KP Performance KP-6DPFP18-8NF flat panel antenna, 4950 to 6500 MHz, 18 dBi is in stock and ready to ship same-day. This high-performance 18 dBi wifi 6e antenna is ideal for 4.9/5.1/5.3/5.4/5.8/6 GHz ISM and UNII band, Wi-Fi 6e and Wi-Fi 7, and long distance backhaul and point to point data link applications. Based on your specifications, our expert technical support and highly trained sales team can find the ideal 4950 to 6500 MHz, 18 dBi flat panel antenna.

**Configuration**

Design	Flat Panel
Application Band	MIMO
Band Type	Single
Polarization	H/V or 45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Interface 3	N Female
Interface 4	N Female
Number of Ports	8
Lightning Protection	DC Grounded

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[4950 MHz to 6500 MHz, Flat panel Antenna, 8x8 MIMO, 18 dBi, N Female KP-6DPFP18-8NF](#)

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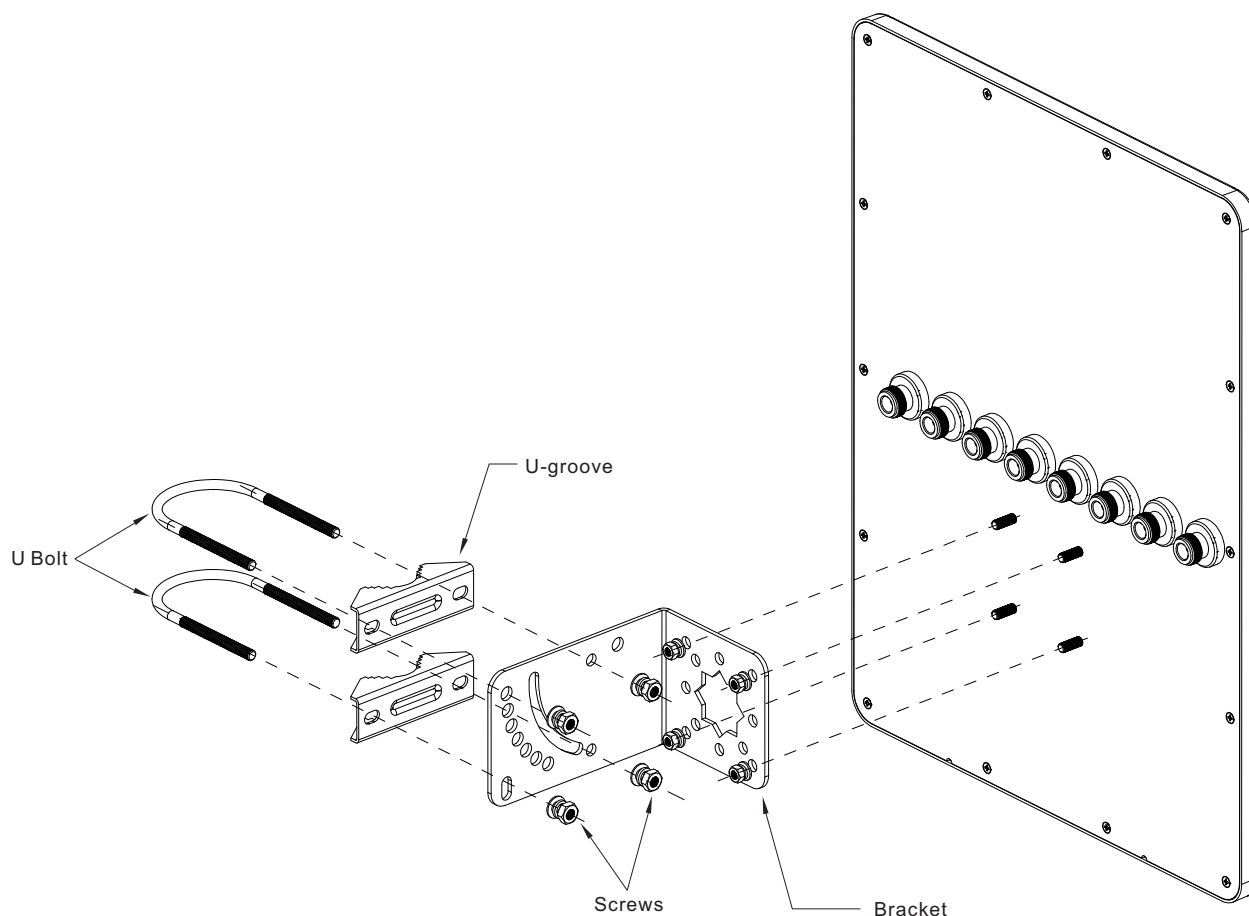
**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,950		6,500	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		18		dBi
Front to Back Ratio	30			dB
Horizontal (Azimuth) HPBW		60		Degrees
Vertical (Elevation) HPBW		8		Degrees
Input Power			50	Watts

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**Mechanical Specifications**

Radome Material	Aluminum
<b>Size</b>	
Length	15.7 in [398.78 mm]
Width	11.81 in [299.97 mm]
Height	1.18 in [29.97 mm]
Mounting Mast Diameter	1.1811 to 3.14961 in [30.00 to 80.00 mm]
Weight	5.47 lbs [2.48 kg]

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**Environmental Specifications**

**Temperature**

Operating Range

-40 to +70 deg C

Mechanical Tilt

30 Degrees

**Plotted and Other Data**

Notes:

**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.

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URL: <https://www.kpperformance.com/4950-mhz-to-6500-mhz-flat-panel-antenna-8x8-mimo-18-dbi-n-female-kp-6dpfp18-8nf-p.aspx>

The information contained within 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. KP Performance reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. KP Performance does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and KP Performance does not assume liability arising out of the use of any part or document.

KP-6DPFP18-8NF CAD Drawing

