

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



## HG4971DP-18FP-8NF

### Features

- 8-port Flat panel antenna
- 4950 to 6500 MHz, 18 dBi
- VSWR < 2:1
- All aluminum material
- Dual slant (V/H or  $\pm 45^\circ$ )
- 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 L-Com HG4971DP-18FP-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  $-40^\circ\text{C}$  to  $70^\circ\text{C}$  ( $-32^\circ\text{F}$  to  $158^\circ\text{F}$ ). This antenna has a 18 dBi high gain, which describes electrical power conversion capability.

The L-Com HG4971DP-18FP-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  $\pm 45^\circ$ ) 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.

L-Com HG4971DP-18FP-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 L-Com HG4971DP-18FP-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 HG4971DP-18FP-8NF](#)

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



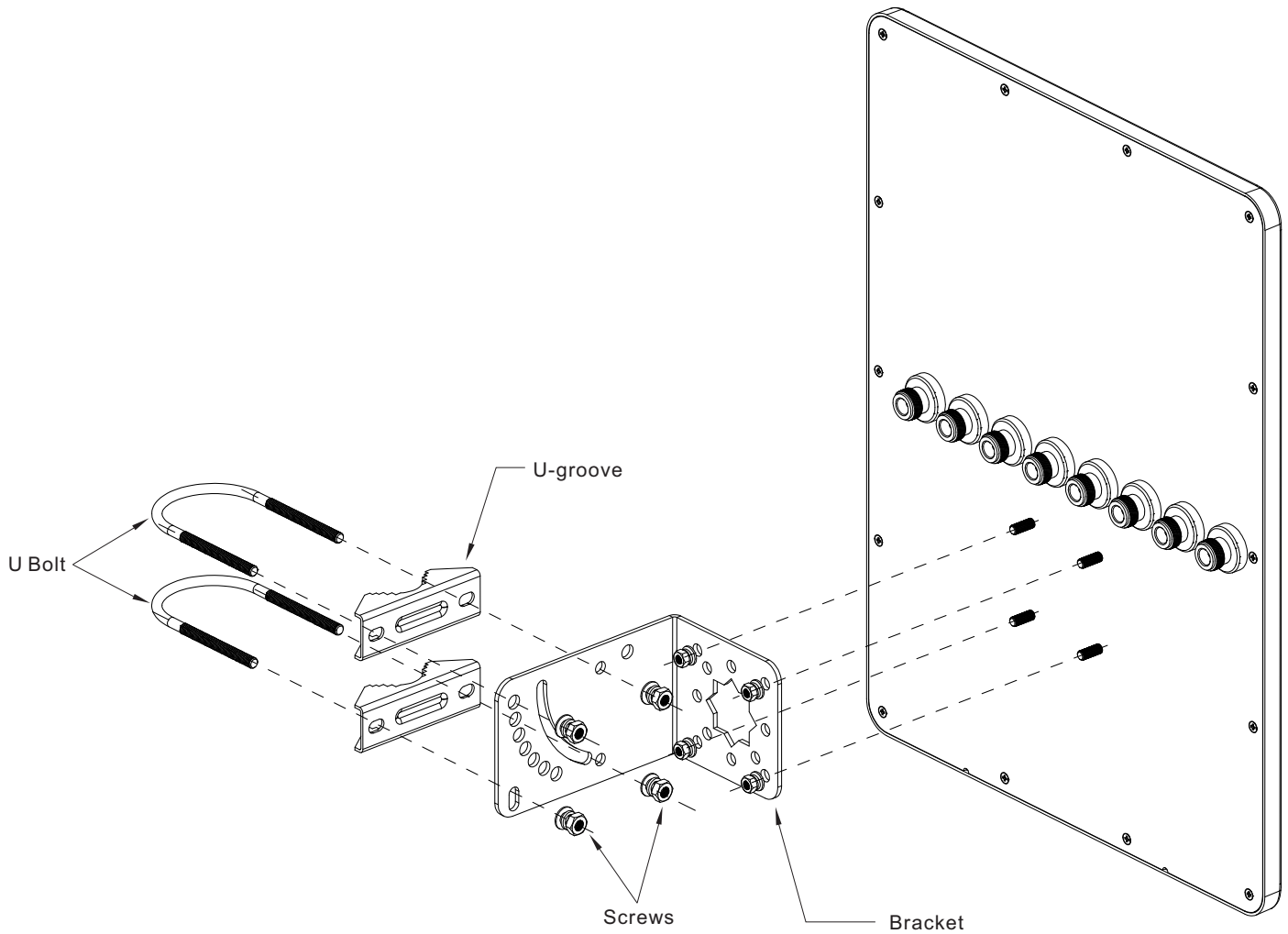
## HG4971DP-18FP-8NF

### 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   |

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

**HG4971DP-18FP-8NF**



**Mechanical Specifications**

Radome Material

Aluminum

**Size**

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

6.61 lbs [3 kg]

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



## HG4971DP-18FP-8NF

### Environmental Specifications

#### Temperature

Operating Range -40 to +70 deg C

Mechanical Tilt 30 Degrees

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

### Plotted and Other Data

Notes:

4950 MHz to 6500 MHz, Flat panel Antenna, 8x8 MIMO, 18 dBi, N Female from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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

L-com CAD Drawing

