



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

Antennas Technical Data Sheet

PE51FP1017

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

MIMO vertical/horizontal polarized flat panel antenna PE51FP1017 from Pasternack is part of our extensive in-stock antennas that ship the same day from our ISO 9001:2015 certified facility. The MIMO antenna with a 4950 to 6500 MHz frequency range has a maximum input VSWR of 2:1. This antenna has 8-port N-type female connector.

This antenna has a white radome made of aluminum, an overall length of 15.7 in, width of 11.81 in, and weighs 6.61 lbs. Pasternack's PE51FP1017 is a single band flat panel antenna operating from 4950 to 6500 MHz with 18 dBi gain.

Pasternack's experts are on hand to assist you with any inquiries. Order this PE51FP1017 MIMO flat panel antenna 7 days a week, 24 hours a day using our on-line ordering system with no MOQs (minimum order quantity) and same-day shipping.

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,950		6,500	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		18		dBi
Isolation		25		dB
Front to Back Ratio		30		dB
Horizontal (Azimuth) Beam Width		60		Degrees
Vertical (Elevation) Beam Width		8		Degrees

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 PE51FP1017](#)



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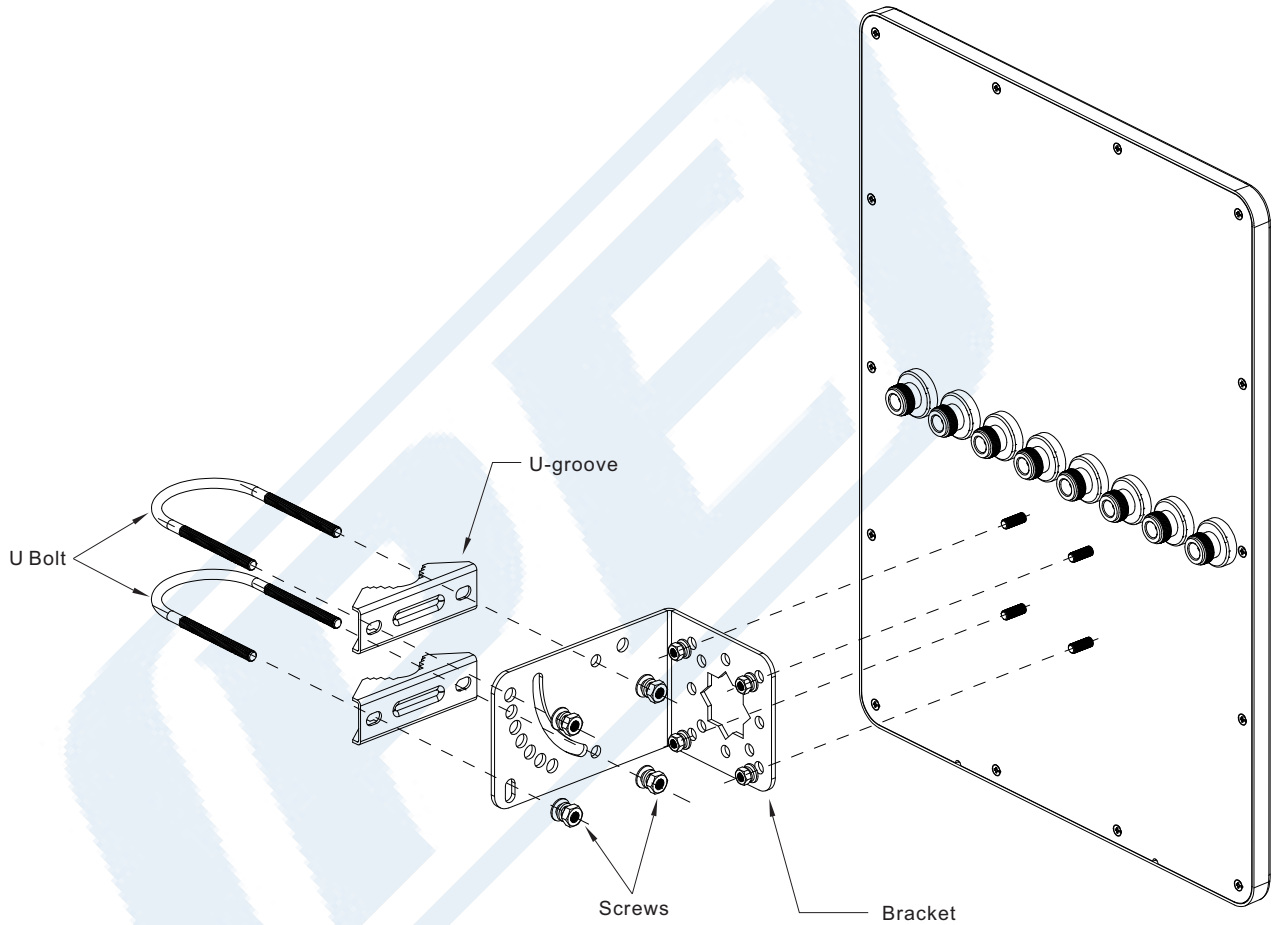
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PE51FP1017

Input Power

50

Watts



Mechanical Specifications

Radome Material

Aluminum

Size

Overall Length

13 in [330.2 mm]

Width

17 in [431.8 mm]

Height

4 in [101.6 mm]

Mounting Mast Diameter

1.1811 to 3.14961 in [30.00 to 80.00 mm]

Weight

6.61 lbs [3 kg]

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Environmental Specifications

Temperature

Operating Range

-40 to +70 deg C

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 Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

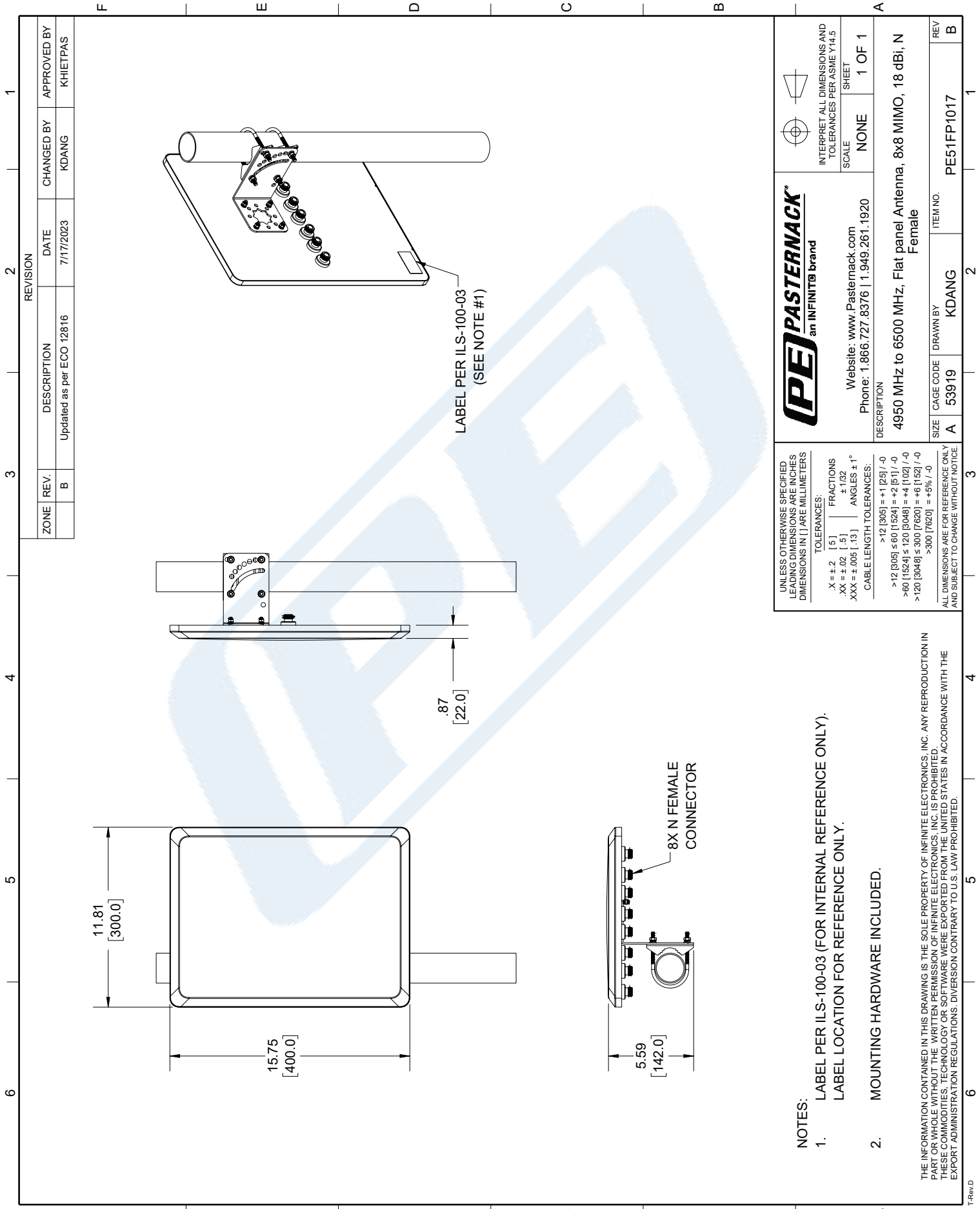
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URL: <https://www.pasternack.com/18-dbi-flat-panel-antenna-4950-6500-mhz-n-type-female-connector-pe51fp1017-p.aspx>

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

PE51FP1017 CAD Drawing

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NOTES:

1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY). LABEL LOCATION FOR REFERENCE ONLY.
2. MOUNTING HARDWARE INCLUDED.

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TOLERANCES:	FRACTIONS
.X = ±.2 [5]	±.1/32
.XX = ±.02 [.5]	±.001
.XXX = ±.005 [.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305]	±.1 [25] / -0
>12 [305] ≤ 60 [1524]	±.2 [5] / -0
>60 [1524] ≤ 120 [3048]	±.4 [10] / -0
>120 [3048] ≤ 300 [7620]	±.6 [15] / -0
>300 [7620]	±.9 [22] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION 4950 MHz to 6500 MHz, Flat panel Antenna, 8x8 MIMO, 18 dBi, N Female
SIZE: A CAGE CODE: 53919	DRAWN BY: KDANG ITEM NO.: PE51FP1017	
ZONE: B REV: B	DESCRIPTION: Updated as per ECO 12816 DATE: 7/17/2023 CHANGED BY: KDANG APPROVED BY: KHIETPAS	REVISIONS 1