

## 2.4 GHz to 2.5 GHz, 17 dBi gain, 4x4 MIMO Flat Panel Antenna, X-pol with 4 port N Female Connectors

### KP-2X4FP-17



#### Features

- 2.4 GHz to 2.5 GHz
- 17 dBi High Gain
- Low Profile Design
- +/- 45 slant polarization for increased MIMO and data throughput
- Outdoor rated
- 4 x Type N connector

#### Applications

- WISP
- WLAN
- High Density WIFI Applications
- Hospitality, Industrial, Municipality
- Rural High Speed Internet

#### Description

The KP-2X4FP-17 from KP Performance is Flat Panel antenna, operating from 2.4 GHz to 2.5 GHz. It is a professional quality antenna designed primarily for multiple input multiple output, point-to-multipoint and point-to-point applications in the 2.4 GHz frequency band.

This KP Performance antenna has 35 degrees of Horizontal and 15 degrees of Vertical Beamwidth. KP-2X4FP-17 incorporates advanced Cross Polarization technology that allows for the interoperability of multiple radios to transmit and receive paths. With high 17 dBi gain, a heavy-duty ABS plastic radome this X-pol Flat Panel antenna is ideal for high density outdoor applications. The KP-2X4FP-17 antenna is designed for pole mounting and is DC Grounded.

The KP-2X4FP-17 features four separate antenna ports 2x2 MIMO or 4x4 MIMO, with N Type Female connectors and a minimum of 20 dB Port to Port Isolation. A mast mount is included which allows for quick installation at various degrees of up/down tilt for easy alignment. Contact the KP Performance friendly and knowledgeable staff for your answers on any of our antennas.

#### Configuration

Design	Panel
Band Type	Single
Radiation Pattern	Directional
Polarization	±45 Deg. Slant
Connector Type	N Female
Number of Ports	4
Lightning Protection	DC Ground

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR			1.7:1	
Impedance		50		Ohms
Gain			17	dBi
Front to Back Ratio	20			dB
Input Power			100	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[2.4 GHz to 2.5 GHz, 17 dBi gain, 4x4 MIMO Flat Panel Antenna, X-pol with 4 port N Female Connectors KP-2X4FP-17](#)

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**KP-2X4FP-17**

**Specifications by Band**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4 to 2.5					GHz
Gain	17					dBi
Horizontal HPBW	40					Degrees
Vertical HPBW	16					Degrees
Port to Port Isolation	20	20				dB
Front to Back Ratio	25					dB

**Mechanical Specifications**

Radome Material	ABS
Housing Plating/Color	Gray
<b>Size</b>	
Length	17.72 in [450.09 mm]
Width	17.72 in [450.09 mm]
Height	1.29 in [32.77 mm]
Mounting Mast Diameter	1.18 to 2.36 in [29.97 to 59.94 mm]
Weight	20 lbs [9.07 kg]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +60 deg C

**Plotted and Other Data**

Notes:

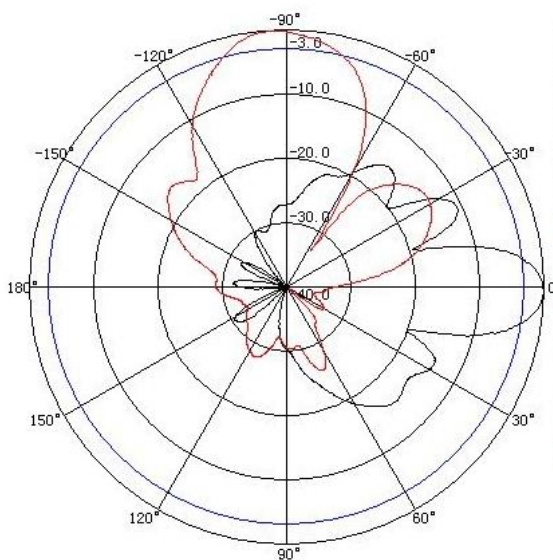
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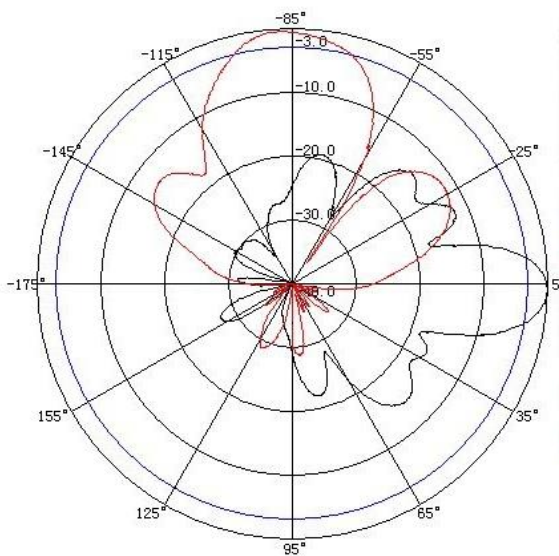
**KP-2X4FP-17**



**Typical Radiation Pattern**



Test Frequency: 2400MHz  
Test Plane: Vertical  
Test Plane : Horizontal



Test Frequency: 2500MHz  
Test Plane: Vertical  
Test Plane : Horizontal

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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.

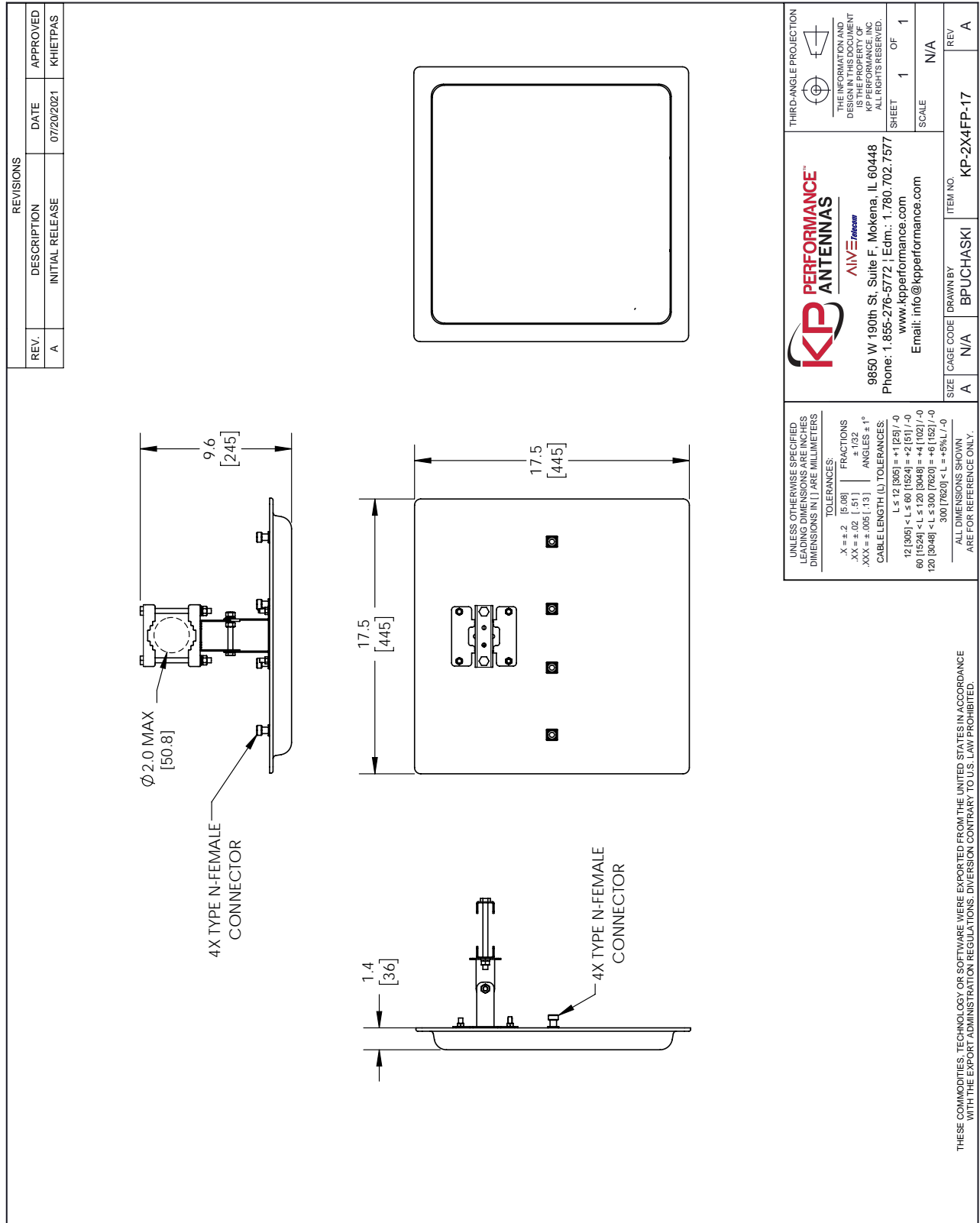
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KP-2X4FP-17 CAD Drawing



T-Rev.D