

3.45 GHz to 3.8 GHz, 21 dBi gain, 4x4 MIMO Flat Panel Antenna, X-pol with 4 port N Female Connectors

KP-3X4FP-21



Features

- 3.45 GHz to 3.8 GHz
- 21 dBi High Gain
- Low Profile Design
- +/- 45 slant polarization for increased MIMO and data throughput
- Outdoor rated
- 4 x Type N connector

Applications

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

Description

The KP-3X4FP-21 from KP Performance is Flat Panel antenna, operating from 3.45 GHz to 3.8 GHz. It is a professional quality antenna designed primarily for multiple input multiple output, point-to-multipoint and point-to-point applications in the 3.5 GHz frequency band.

This KP Performance antenna has 15 degrees of Horizontal and 15 degrees of Vertical Beamwidth. KP-3X4FP-21 incorporates advanced Cross Polarization technology that allows for the interoperability of multiple radios to transmit and receive paths. With high 21 dBi gain, a heavy-duty ABS plastic radome this X-pol Flat Panel antenna is ideal for high density outdoor applications. The KP-3X4FP-21 antenna is designed for pole mounting and is DC Grounded.

The KP-3X4FP-21 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	3,450		3,800	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain			22	dBi
Front to Back Ratio	25			dB
Input Power			50	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	3.45 to 3.8					GHz
Gain	22					dBi
Horizontal HPBW	15					Degrees
Vertical HPBW	15					Degrees
Port to Port Isolation	20	20				dB
Front to Back Ratio	25					dB

Mechanical Specifications

Radome Material	ABS
Housing Plating/Color	White
Size	
Length	17.72 in [450.09 mm]
Width	17.72 in [450.09 mm]
Height	1.29 in [32.77 mm]
Mounting Mast Diameter	1.38 to 1.97 in [35.05 to 50.04 mm]
Weight	15 lbs [6.8 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C

Plotted and Other Data

Notes:

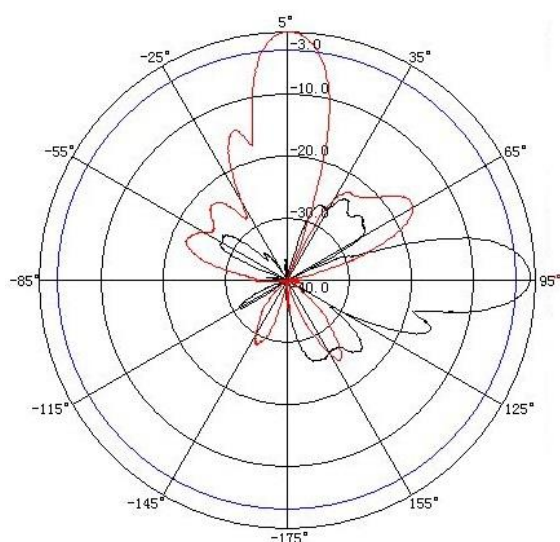
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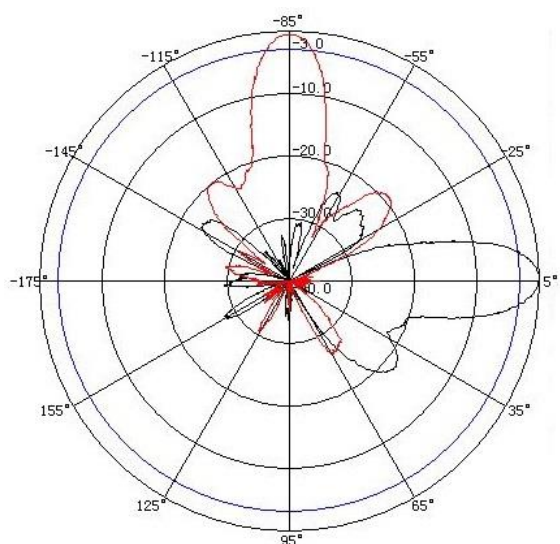
Typical Radiation Pattern



Test Frequency: 3600MHz

Test Plane: Vertical

Test Plane : Horizontal



Test Frequency: 3800MHz

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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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-3X4FP-21 CAD Drawing

