5925 to 7125 MHz, WiFi Sector Antenna, 17 dBi, 65-Degree, +/-45 Dual Pol, 2-port, Type N Female Connector

KP-6SX2-65

Features

- Very High Gain 17 dBi Directional Antenna with MIMO peak performance
- Uni band Frequency coverage for 5925 MHz to 7125 MHz
- Sector antenna with 2 x Type N Female connectors
- Supports low-latency, bandwidth-hungry applications like high-definition video and augmented reality/virtual reality applications
- 65° beamwidth with dual +/-45 slant polarization
- 100 W max input power per port
- Easy Install mounting bracket provided
- Weatherproof ABS – UV Resistance PVC radome

Applications

- Outdoor and Indoor Uni-band Wi-Fi 6E 5.9 GHz to 7.125GHz applications supported
- Wireless LAN systems & IEEE.802.16ax applications with MU-MIMO and OFDMA
- WiFi 6 and WiFi 6E enables higher datarates upto 35% with enhanced efficiency and speed
- Increased Bandwidth enhances spectral efficieny and supports faster radio applications
- Smart cities expansion for coverage and IOT / IIOT
- Point-to-point (PtP) or point-to-multipoint (PtMP) applications

Description

The KP Performance KP-6SX2-65 WiFi sector antenna is designed for extensive cellular communication. This antenna has a wide band frequency range from 5925-7125 MHz with a minimum front-to-back ratio of 25. It comes with a Type-N female connector with maximum input power of up to 100 watts. This sector antenna has a high gain of 17 dBi, which makes it suitable for commercial use, large enterprises, and the telecommunication industry.

This KP-6SX2-65 single band antenna includes universal radio brackets, which simplifies installation. The WiFi 6e antenna with 20 dB port-to-port isolation can be used for indoor (stadiums, large arenas) and outdoor applications. It has dual slant +/-45 polarizations to improve equality in received signal levels. This unlicensed WiFi 6 frequency band antenna with 17 dBi gain is DC grounded and comes with a 4-degree electrical down tilt.

This 5925-7125 MHz, +/-45 dual-polarized antenna comes with 2-ports. It has a 65-degree horizontal and 8-degree vertical HPBW. The sector antenna with 17 dBi gain is offered with a directional radiation pattern and has a PVC radome. This single-band antenna can operate in temperatures ranging from -40 to 60 °C.

KP Performance has the largest in-stock selection of directional, WiFi 6e sector antennas with the same-day shipment. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the perfect 5925-7125 MHz, single band antenna for your requirements.

Configuration

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
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:
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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			2:1	
Impedance		50		Ohms
Front to Back Ratio	25			dB
Electrical Downtilt		4		Degrees
Port to Port Isolation	20			dB
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	5.925 to 7.125					GHz
Gain	17					dBi
Horizontal HPBW	65					Degrees
Vertical HPBW	8					Degrees
Port to Port Isolation	20					dB
Front to Back Ratio	25					dB

Mechanical Specifications

Radome Material	PVC
Size	
Length	25.98 in [659.89 mm]
Width	7.08 in [179.83 mm]
Height	3.14 in [79.76 mm]
Mounting Mast Diameter	1.181 to 2.362 in [30.00 to 59.99 mm]
Weight	7.71 lbs [3.5 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	134 MPH [215.65 KPH]
Wind Loading	

Plotted and Other Data

Notes:

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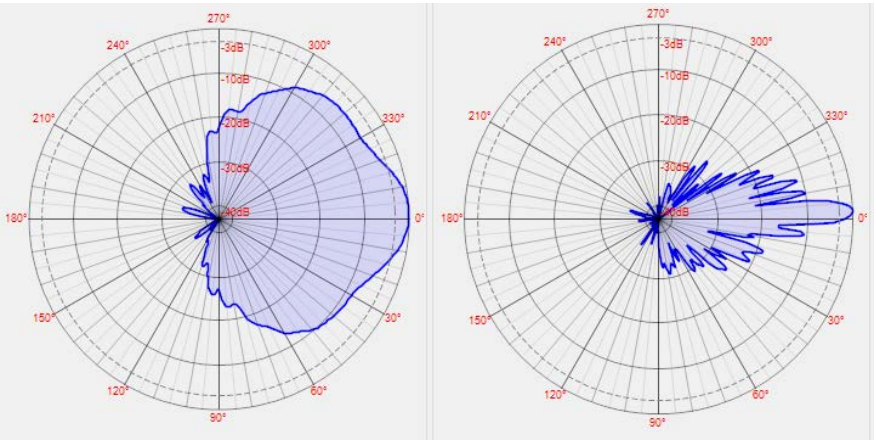
Typical Radiation Pattern

Frequency: 6300 MHz

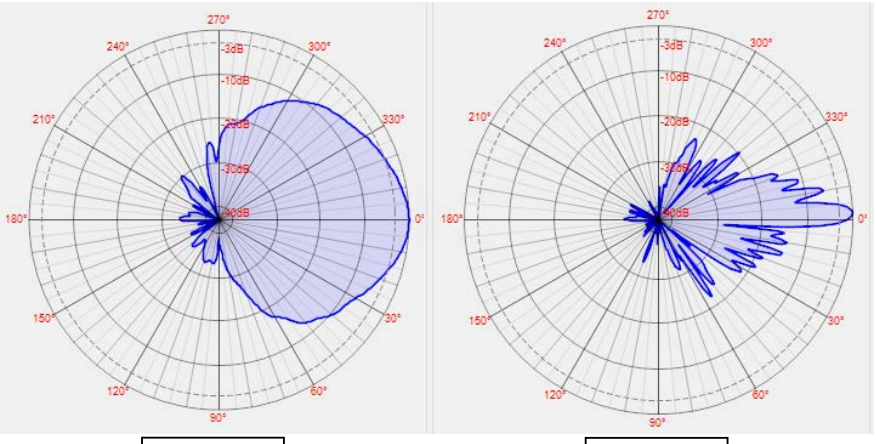
Gain: 19.05 dBi



Horizontal Plane | Vertical Plane

Frequency: 7100 MHz

Gain: 26.91 dBi



Horizontal Plane | Vertical Plane

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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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URL:

KP-6SX2-65 CAD Drawing