

5925 to 7125 MHz, WiFi Sector Antenna, 17 dBi, 90-Degree,  
+/-45 Dual Pol, 2-port, Type N Female Connector

## KP-6SX2-90



### 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
- 90° 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 data rates upto 35% with enhanced efficiency and speed
- Increased Bandwidth enhances spectral efficiency 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-6SX2-90 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-6SX2-90 single band antenna includes universal radio brackets, which simplifies installation. The WiFi 6e antenna with 25 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 3-degree electrical down tilt.

This 5925-7125 MHz, +/-45 dual-polarized antenna comes with 2-ports. It has a 90-degree horizontal and 5-degree vertical HPBW. The sector antenna with 17 dBi gain is offered with an Omni 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 Omni 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    | Omni 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:  
[5925 to 7125 MHz, WiFi Sector Antenna, 17 dBi, 90-Degree, +/-45 Dual Pol, 2-port, Type N Female Connector KP-6SX2-90](#)

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## KP-6SX2-90



### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units   |
|------------------------|---------|---------|---------|---------|
| Input VSWR             |         |         | 2:1     |         |
| Impedance              |         | 50      |         | Ohms    |
| Front to Back Ratio    | 25      |         |         | dB      |
| Electrical Downtilt    |         | 3       |         | Degrees |
| Port to Port Isolation | 25      |         |         | 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        | 90             |        |        |        |        | Degrees |
| Vertical HPBW          | 5              |        |        |        |        | Degrees |
| Port to Port Isolation | 25             |        |        |        |        | dB      |
| Front to Back Ratio    | 25             |        |        |        |        | dB      |

### Mechanical Specifications

|                        |                                       |
|------------------------|---------------------------------------|
| Radome Material        | PVC                                   |
| <b>Size</b>            |                                       |
| Length                 | 24.8 in [629.92 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                 | 7.05 lbs [3.2 kg]                     |

### Environmental Specifications

|                    |                      |
|--------------------|----------------------|
| <b>Temperature</b> |                      |
| 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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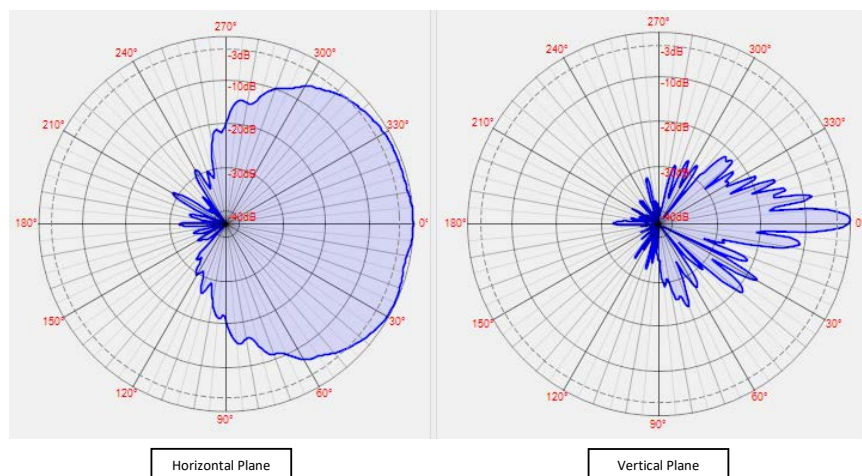
## KP-6SX2-90



### Typical Radiation Pattern

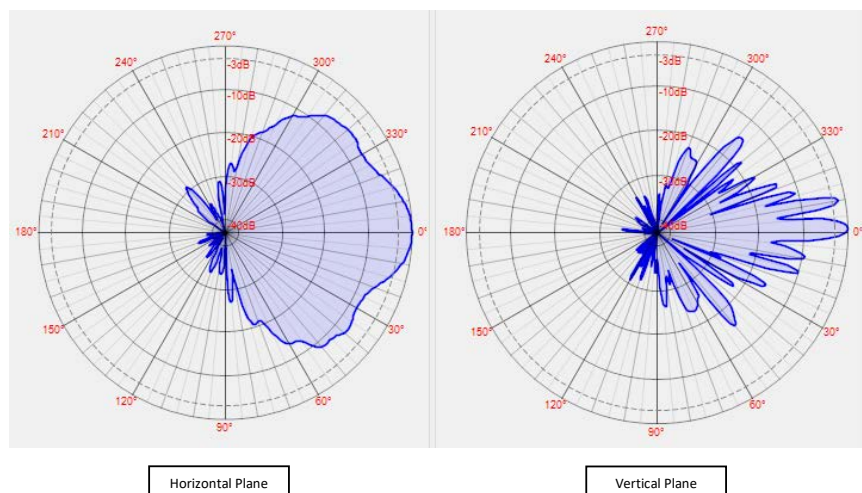
Frequency: 6300 MHz

Gain: 15.71 dBi



Frequency: 7100 MHz

Gain: 25.11 dBi



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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:

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-6SX2-90 CAD Drawing

