

3.3 GHz to 3.8 GHz, 90 Degree, 17 dBi, +/-45 Slant Polarization, 4-Port Sector Antenna

KP-3SX4-90



Features

- 4 x 4 MIMO Multiple-Input and Multiple-Output
- Four ±45 slant polarization ports with integral N-female connectors in a single enclosure

Applications

- 3.5 GHz Citizens Broadband Radio Service(CBRS) applications
- Wireless LAN systems & IEEE 802.16e applications
- Mobile WiMAX Wireless Internet Provider "cell" sites
- SOFDMA

- UV-resistant radome and rugged mounting hardware for allweather operation
- · 0° fixed electrical downtilt
- Uniform 360 degree coverage
- Point-to-multipoint (PtMP) requiring 90 degree of horizontal coverage
- · Ideal for 4-sector frequency-re
- · use two with LTE equipment

Description

Superior Performance: The KP Brand KP-3SX4-90 Sector Panel Antenna combines four ports with dual ±45 slant polarization, high 17 dBi gain with a 90 degree beamwidth in a single enclosure with one mounting point. It is a professional quality antenna designed primarily for 4x4 or 2x2 MIMO point-to-point or point-to-multipoint applications in the 3.5 GHz Citizens Broadband Radio Service (CBRS) frequency band. This antenna incorporates advanced low PIM, dual polarization technology that allows for the interoperability of one 4x4 radio or two 2x2 radios with multiple transmit and receive path. The sector antenna is ideal for applications requiring 90 degree horizontal coverage over one or more sectors and with 4-sector frequency-reuse two (ABAB) channel planning. This antenna supports LTE deployments in the 3.3 - 3.8 GHz spectrum.&Rugged and Weatherproof: The 4-port sector antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The heavy-duty, powder-coated mounting brackets allows installation with pipe diameter from 1.25" to 3.5" and various degrees of incline for easy alignment. This sector antenna is built to withstand speeds of up to 100 mph and survive in a wide-range of challenging environments.

Configuration

Design Se
Application Band Cf
Band Type Mi
Radiation Pattern Di
Polarization 45
Connector Type N
Interface 2 N
Interface 3 N
Interface 4 N
Number of Ports 4

Sector CBRS Multi Directional 45 Deg. Slant N Female N Female N Female N Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3,300		3,800	MHz
Input VSWR		1.5:1	1.7:1	
Impedance		50		Ohms
Gain	8.5			dBi
Front to Back Ratio	30			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.3 GHz to 3.8 GHz, 90 Degree, 17 dBi, +/-45 Slant Polarization, 4-Port Sector Antenna KP-3SX4-90



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Electrical Downtilt		1		Degrees
Cross Polarization Ratio	10			dB
Port to Port Isolation	25			dB
Horizontal (Azimuth) HPBW		90		Degrees
Vertical (Elevation) HPBW		11		Degrees
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	3.3 to 3.55	3.5 to 3.8				GHz
Gain	16.5	17				dBi
Horizontal HPBW	90	90				Degrees
Vertical HPBW	6.5	6				Degrees
Electrical Downtilt	0					Degrees
Cross Polar Ratio	15					
VSWR Max	2:1	1.7:1				

Mechanical Specifications

Radome Material

Size

Radome Diameter

Length Width Height

Mounting Mast Diameter

Weight

Mechanical Specification Notes: Radome material is UV-resistant PVC. UV protected PVC

6.3 in [160.02 mm] 31.7 in [805.18 mm] 11 in [279.4 mm] 3.57 in [90.68 mm]

1.25 to 3.5 in [31.75 to 88.90 mm]

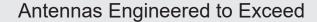
18 lbs [8.16 kg]

Environmental Specifications

Temperature

Operating Range -40 to +140 deg C
Wind Survivability 100 MPH [160.93 KPH]
Wind Loading 54 lbs at 130 mph

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Compliance Certifications (see product page for current document)
IP Rating
55

Plotted and Other Data

Notes:

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: https://www.kpperformance.com/3-3ghz-to-3-8ghz-90-degree-17-dbi-slant-polarization-4-port-sector-antenna- kp-3sx4-90-p.aspx

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KP-3SX4-90 CAD Drawing

