

3.3 GHz to 4.2 GHz 8-port MIMO Sector antenna, 17 dBi, 90-degree, 8 x Type N Female Connector, +/-45 Dual pol

KP-3SX8-90



Features

- Frequency coverage for 3300 MHz to 4200 MHz
- Very High Gain 17 dBi Directional Antenna
- Easy Install universal mounting bracket provided
- Weatherproof ABS – UV Resistance PVC radome
- 8 x Type N Female connector
- 90° beamwidth with dual +/-45 slant polarization
- 100 W max input power

Applications

- 2X2, 4X4 and 8X8 MIMO ready
- 3.3/CBRS applications supported
- Wireless LAN systems & I25 802.16e applications
- Mobile WiMAX Wireless Internet Provider “cell” site
- Smart cities expansion for coverage and IOT / IIOT
- Outdoor or indoor point-to-point (PtP) or point-to-multipoint (PtMP) applications

Description

KP Performance’s KP-3SX8-90 8-port Sector Antenna provides industry leading gain, side lobes suppression, and high front-to-back ratio. Available in 90° beamwidth with dual +/-45 slant polarization, this antenna works from 3300 MHz to 4200 MHz. The KP-3SX8-90 has gain performance of 17 dBi gain and is perfectly suited for macro base station or small cell deployments.

The KP-3SX8-90 from KP Performance patterns are engineered to be symmetric in both polarizations, which will minimize chain imbalance. The sector antenna’s 25 dB port to port isolation and 30 dB front to back ratio allows for channel (frequency) reuse and can reach high levels of spectral efficiency in the most challenging and noisy environments. The KP-3SX8-90 sector antennas has 8 Type N Female connectors which make 2x2, 4x4, and 8x8 MIMO configurations possible for high speeds or multiple technology deployments.

The 3.3 GHz to 4.2 GHz KP-3SX8-90 sector antenna with 8 x N-type female connector has rugged and waterproof structure provides durable platform built for a broad range of environments and features a heavy-duty UV-resistance plastic radome for all-weather operation. The powder coated, high strength mounting brackets are built to withstand wind speeds of up to 135 mph and survive in corrosive environments with large swing in seasonal weather not impacting performance of KP performance’s KP-3SX8-90 sector antenna. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your particular needs for high performance sector antennas engineered for superior performance antennas.

Configuration

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	45 Deg. Slant
Cable Type	Coax Cable
Connector Type	N Female
Number of Ports	8

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3,300		4,200	MHz
Input VSWR			2:1	
Gain		17		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:
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Horizontal (Azimuth) HPBW	90	Degrees
Vertical (Elevation) HPBW	5	Degrees
Input Power	100	Watts

Mechanical Specifications

Radome Material	PVC
Size	
Length	60.62 in [153.97 cm]
Width	11.02 in [279.91 mm]
Height	3.14 in [79.76 mm]
Weight	17.196 lbs [7.8 kg]

Environmental Specifications

Wind Survivability	135 MPH [217.26 KPH]
Wind Loading	

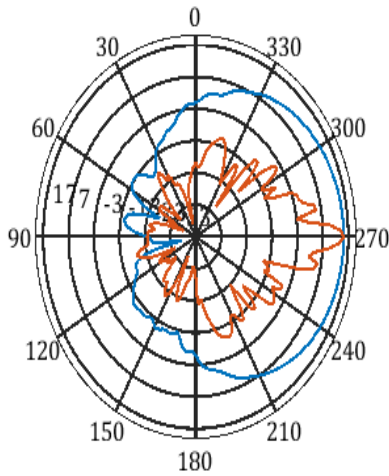
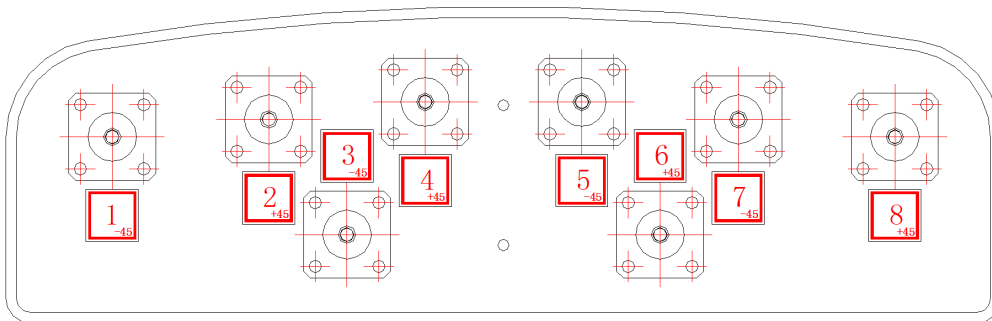
Plotted and Other Data

Notes:

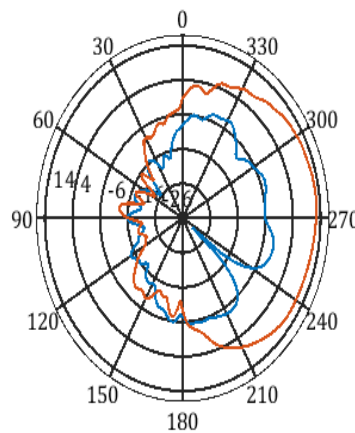
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f=3300MHz, Co@2-cuts

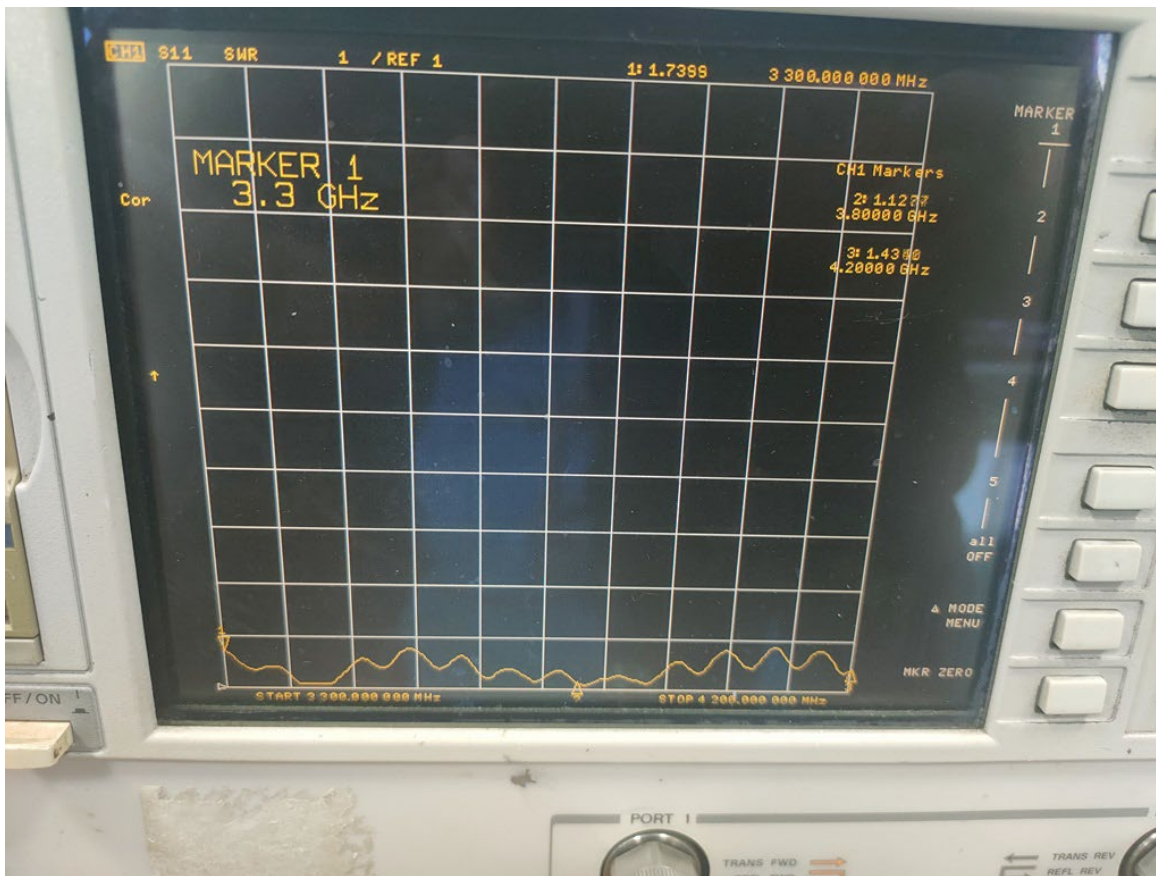


f=4200MHz, X-Y Plane

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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.

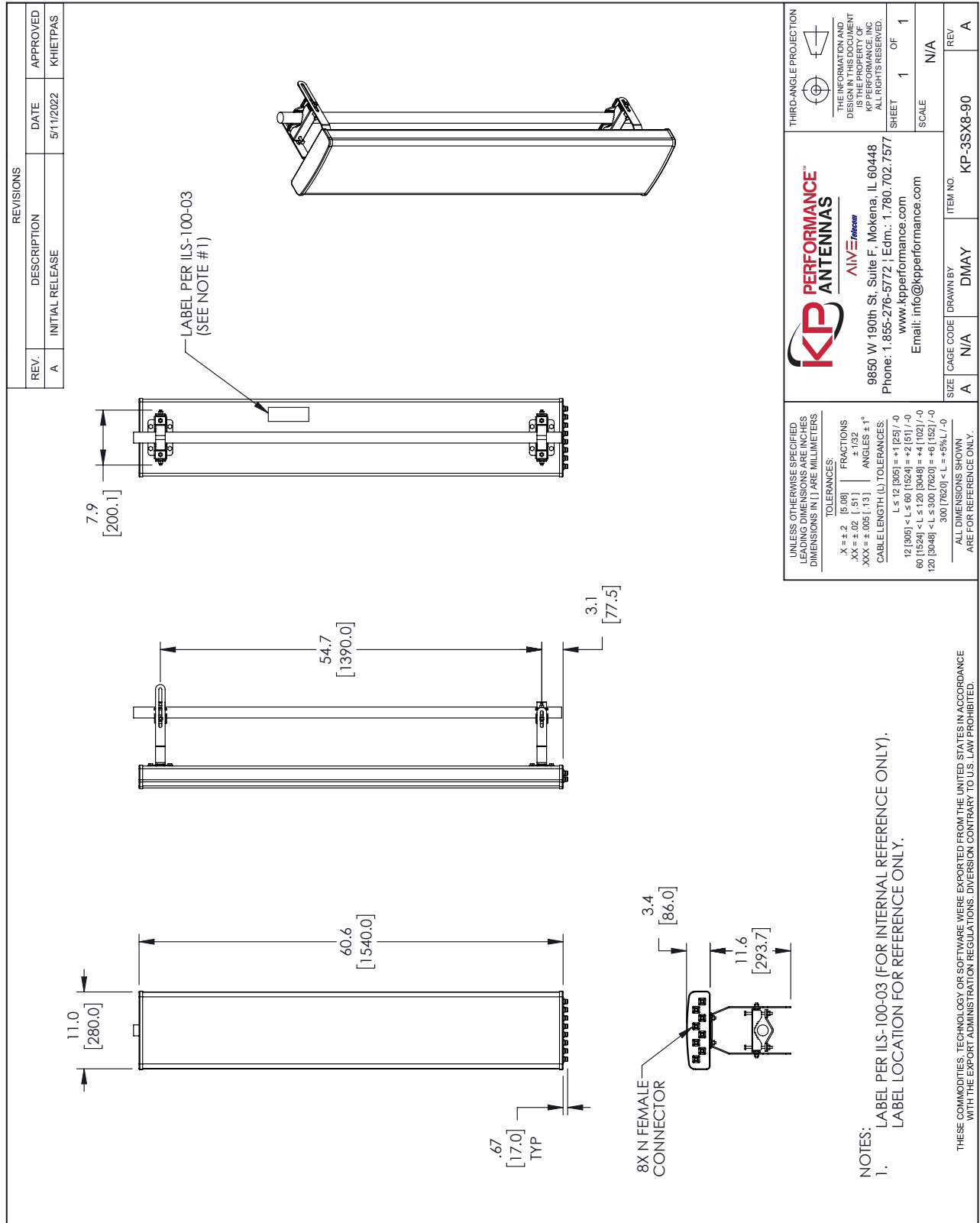
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URL:

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.

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KP-3SX8-90 CAD Drawing



T-Rev-D