

3.3 GHz to 4.2 GHz, 65 Degree Sector Antenna, 8-port, 18 dBi Gain, +/-45 Slant

KP-3SX8-65



Features

- 17 to 18 dBi gain
- Superior port isolation, cross polarization discrimination, gain, VSWR, and front-to-back
- 3300 to 4200 MHz for world-wide markets
- 30 dB Front to Back Ratio
- Eight (8) N Female Connectors
- Heavy-duty aluminum brackets with powder coated steel hardware
- Universal radio bracket with quick-release slot/clip design is compatible with many AP radios

Applications

- 3.5 GHz Citizens Broadband Radio Service (CBRS) applications
- Extended CBRS for 4.2 GHz (EMEA and UK) use
- Wireless LAN systems & IEEE 802.16e applications
- Mobile WiMAX Wireless Internet Provider “cell” sites
- SOFDMA
- Outdoor or indoor point-to-point (PtP) or point-to-multipoint (PtMP) in CBRS band
- For use in LTE and 5G bands n42, n43, n48, n49, n52, n77 and n78
- 4x4 and 8x8 MIMO ready

Description

KP Performance's KP-3SX8-65 3.5 GHz 8-port Sector Antenna with Type N connectors provides industry leading gain, side lobes suppression, and high front to back ratio. The KP-3SX8-65 has gain performance of 16 to 18 dBi gain with 65° beamwidth and is perfectly suited for macro base station or small cell deployments. Available in dual +/-45 slant polarization, this antenna works from 3.3 GHz – 4.2 GHz.

The KP-3SX8-65 from KP Performance patterns are engineered to be symmetric in both polarizations, which will minimize chain imbalance. The 8 Type N connectors make 2x2, 4x4, and 8x8 MIMO configurations possible for high speeds or multiple technology deployments. The sector antenna's 17 dB side lobe suppression 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-3SX8-65 sector antenna with 8 x N-type female connector has Universal radio brackets that are compatible with many popular Cambium PMP/EPMP, Ubiquiti Rocket/Prism, Mimosa, and Baicell radios. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your multipoint macro base station antenna needs. Like our other products, the KP-3SX8-65 is in stock and ready to ship the same day.

Configuration

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	±45 Deg. Slant
Connector Type	N Female
Number of Ports	8
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3,300		4,200	MHz
Impedance		50		Ohms

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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Front to Back Ratio	30		dB
Input Power		100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	3.3 to 3.55	3.55 to 3.8				GHz
Gain	17.5	18				dBi
Horizontal HPBW	65	60				Degrees
Vertical HPBW	7	6				Degrees
Electrical Downtilt	3.5	3				Degrees
VSWR Max	2:1	2:1				

Mechanical Specifications

Radome Material	PVC
Size	
Length	3.15 in [80.01 mm]
Width	11.02 in [279.91 mm]
Height	51.18 in [130 cm]
Mounting Mast Diameter	1.18 to 2.36 in [29.97 to 59.94 mm]
Weight	15 lbs [6.8 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	134.21 MPH [215.99 KPH]

Plotted and Other Data

Notes:

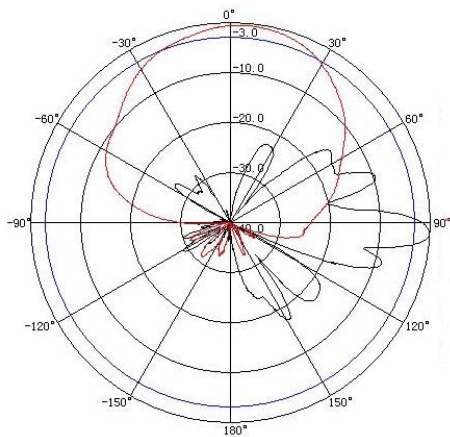
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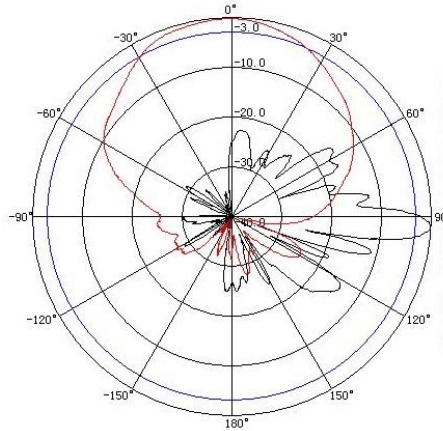
KP-3SX8-65



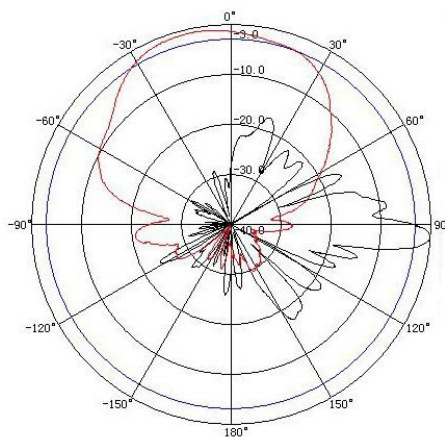
Typical Radiation Pattern



3300 MHz



3550 MHz



3800 MHz

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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: <https://www.kpperformance.com/No-URL-Convention-Found-for-?KP-3SX8-65-p.aspx>

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-3SX8-65 CAD Drawing

