

3.3 GHz to 4.2 GHz, ProLine 65 Degree Sector Antenna, 8-port, 17 dBi Gain, +/-45 Slant

KPP-3SX8-65



Features

- 16 to 17 dBi gain
- Superior port isolation, cross polarization discrimination, gain, VSWR, and front-to-back
- 3300 to 4200 MHz for world-wide markets
- 35 dB Front to Back Ratio
- Eight (8) N Female Connectors
- Heavy-duty aluminum brackets with powder coated steel hardware
- Integrated hoisting hook for added safety and convenient installation
- 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 KPP-3SX8-65 3.5 GHz 8-port Sector ProLine Antenna provides industry leading gain, side lobes suppression, and high front to back ratio. Available in 65° beamwidth with dual +/-45 slant polarization, this antenna works from 3.3 GHz – 4.2 GHz. The KPP-3SX8-65 has gain performance of 16 to 17.5 dBi gain and is perfectly suited for macro base station or small cell deployments.

The KPP-3SX8-65 from KP Performance patterns are engineered to be symmetric in both polarizations, which will minimize chain imbalance. The sector antenna's 17 dB side lobe suppression and superior 40 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 8 Type N connectors make 2x2, 4x4, and 8x8 MIMO configurations possible for high speeds or multiple technology deployments.

The KPP-3SX8-65 ProLine 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. The antenna comes with an integrated hoisting hook for added safety and convenience. 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 KPP-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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3,300		4,200	MHz
Input VSWR		1.3:1		

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 4.2 GHz, ProLine 65 Degree Sector Antenna, 8-port, 17 dBi Gain, +/-45 Slant KPP-3SX8-65](#)

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Impedance 50 Ohms

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	3.3 to 3.8	3.8 to 4.2				GHz
Gain	17	17.2				dBi
Horizontal HPBW	67	65				Degrees
Horizontal Squint (±)	1	1				Degrees
Vertical HPBW	8.8	8.3				Degrees
Electrical Downtilt	3.5	3.5				Degrees
Cross Polar Ratio HPBW	19	20				dB
Port Isolation	30	30				dB
Front to Back Ratio	40	40				dB
VSWR Max	1.5:1	1.5:1				
Maximum Input Power	100	100				Watts

Mechanical Specifications

Radome Material	UV Resistant PVC
Housing Material	Anodized Aluminum
Size	
Length	41.3 in [104.9 cm]
Width	9.7 in [246.38 mm]
Height	2.6 in [66.04 mm]
Weight	40 lbs [18.14 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Mechanical Tilt	18 Degrees
Wind Survivability	100 MPH [160.93 KPH]
Wind Loading	

Plotted and Other Data

Notes:

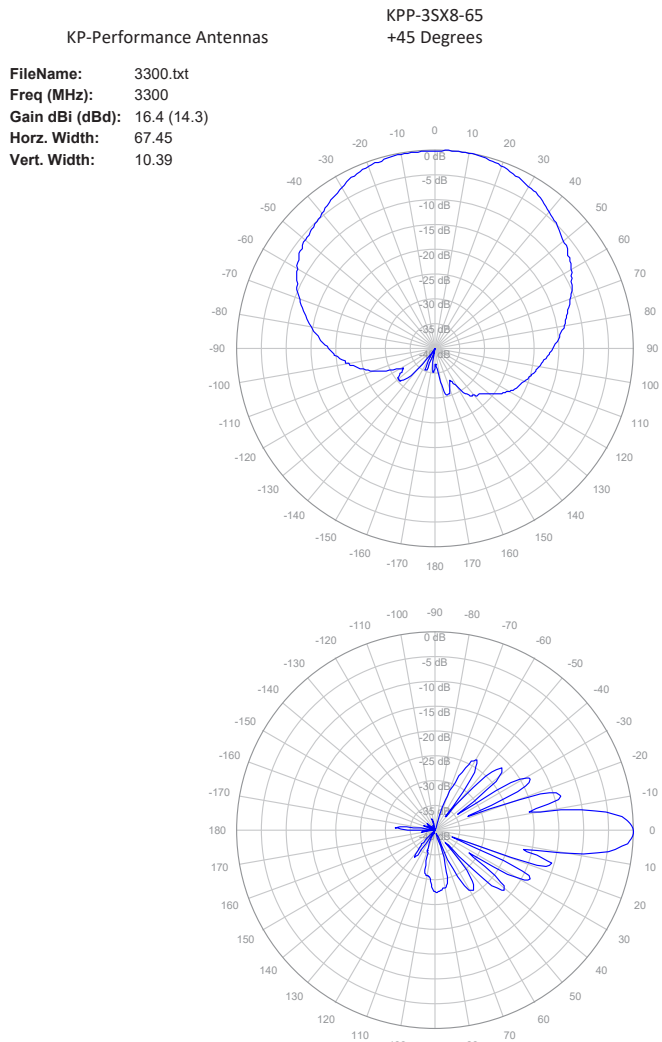
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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Typical Radiation Pattern



1		

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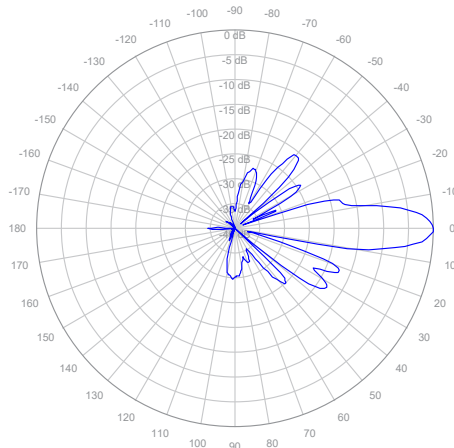
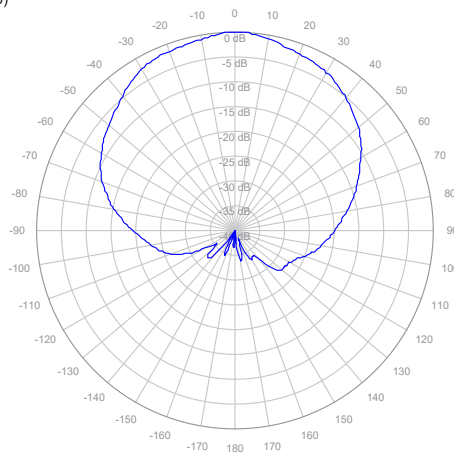
KPP-3SX8-65



KP-Performance Antennas

KPP-3SX8-65
+45 Degrees

FileName: 3800.txt
 Freq (MHz): 3800
 Gain dBi (dBd): 17.1 (15.0)
 Horz. Width: 62.25
 Vert. Width: 9.18



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2

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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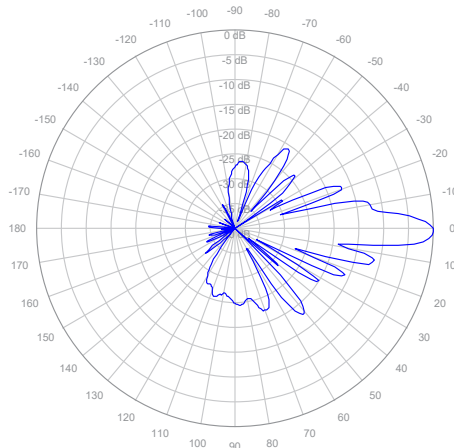
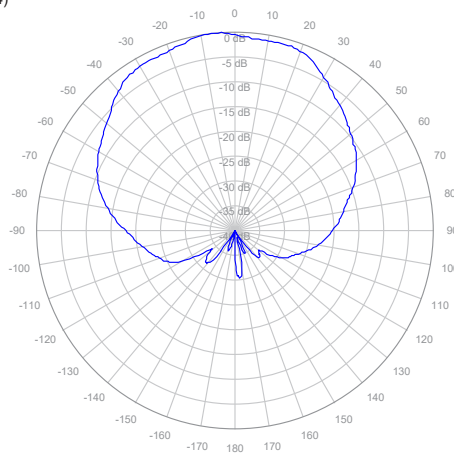
KPP-3SX8-65



KP-Performance Antennas

KPP-3SX8-65
 +45 Degrees

FileName: 4200.txt
 Freq (MHz): 4200
 Gain dBi (dBd): 16.5 (14.4)
 Horz. Width: 64.99
 Vert. Width: 7.6



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3

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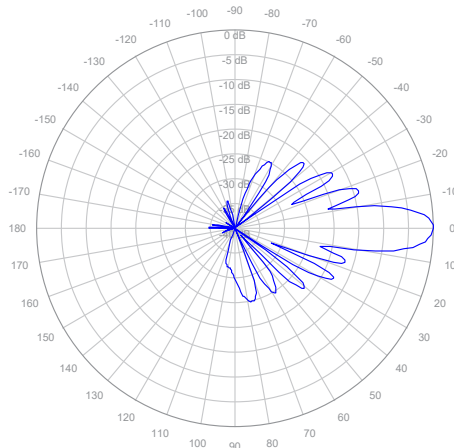
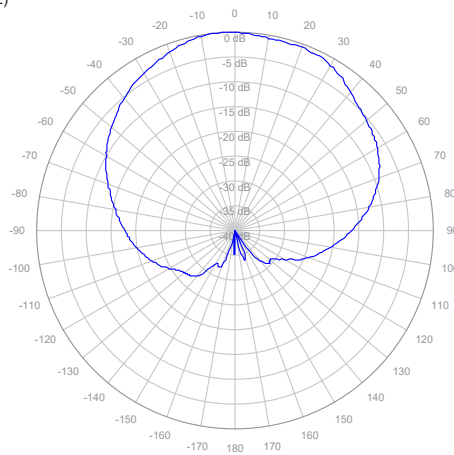
KPP-3SX8-65



KP-Performance Antennas

KPP-3SX8-65
-45 Degrees

FileName: 3300.txt
 Freq (MHz): 3300
 Gain dBi (dBd): 16.4 (14.2)
 Horz. Width: 65.3
 Vert. Width: 10.27



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1

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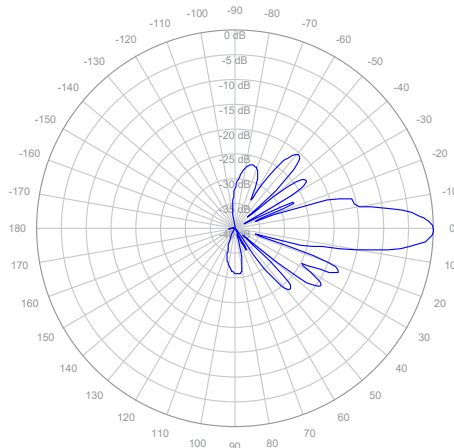
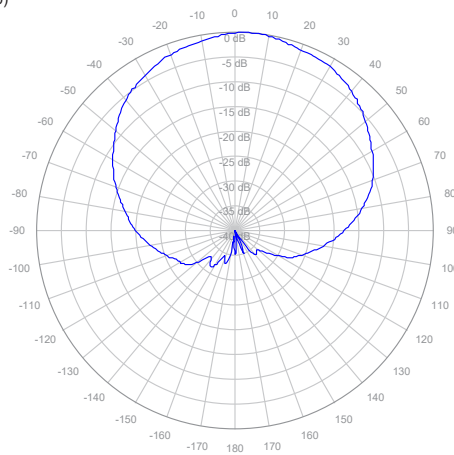
KPP-3SX8-65



KP-Performance Antennas

KPP-3SX8-65
-45 Degrees

FileName: 3800.txt
 Freq (MHz): 3800
 Gain dBi (dBd): 17.1 (15.0)
 Horz. Width: 63.65
 Vert. Width: 9.08



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2

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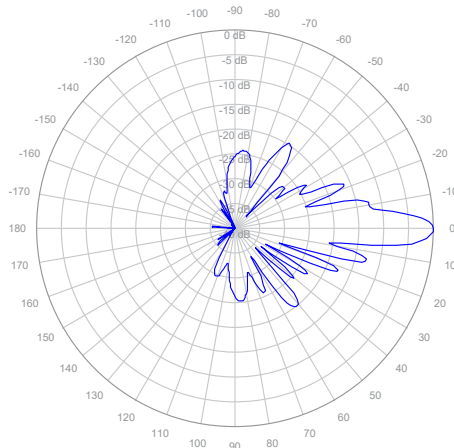
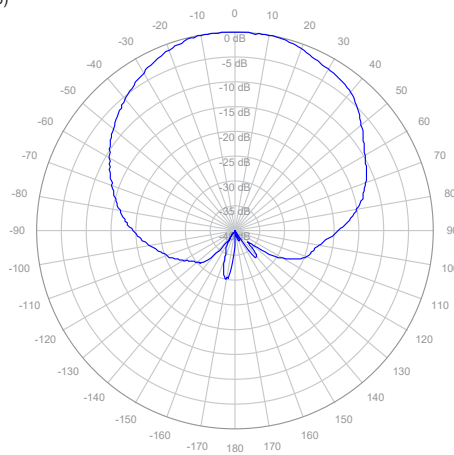
KPP-3SX8-65



KP-Performance Antennas

KPP-3SX8-65
 -45 Degrees

FileName: 4200.txt
 Freq (MHz): 4200
 Gain dBi (dBd): 16.7 (14.6)
 Horz. Width: 65.16
 Vert. Width: 7.94



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3

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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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-4.2ghz-proline-65deg-sector-antenna-8-port-17dbi-gain-45-slant-kpp-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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KPP-3SX8-65 CAD Drawing

