

2.3 GHz to 2.7 GHz, 8-Port WISP Sector Antenna, 17 dBi, 65-degree, 8 N-type Female Connector, +/- 45 Dual Polarization

KP-2SX8-65



Features

- 2300 to 2700 MHz, 17 dBi gain
- 65 deg. beamwidth sector antenna
- 8 x N-type female connector
- Weather proof - UV resistant PVC radome
- Dual slant polarization (+/- 45 deg.)
- VSWR < 1.7:1
- 100 W max input power per port

Applications

- Point to point data links (PtP)
- Point to multi-point data links (PtMP)
- 2x2, 4x4, 8x8 MIMO capability
- WLAN, Wi-Fi 2.4 GHz, DAS Wireless networks
- Smart cities expansion for coverage and IOT / IIOT
- 5G bands - n7, n30, n38, n40, n41, n53, n90, n97
- 4G LTE bands - B7, B30, B33, B38, B40, B41, B69

Description

The KP performance KP-2SX8-65 is a 2.3 GHz to 2.7 GHz WISP sector antenna that is ideal for cellular or mobile base stations or wireless networking due to its size and directional properties. This dual-band MIMO antenna supports Wi-Fi's latest frequency band and has a 65-degree beam width. Without any extras, the unlicensed WiFi frequency bands sector antenna is "future-proof" in terms of network functionality.

This KP-2SX8-65 directional antenna features +/- 45 dual polarization, 17 dBi gain and an UV-resistant ABS radome. The MIMO antenna offers a 8 N-type female connectors which make 2 x 2, 4 x 4 and 8 x 8 configurations possible for high speeds or multiple technology deployments. KP Performance sector antennas are used for WLAN, PtP, PtMP, 2.4 GHz Wi-Fi, wireless networks, DAS and smart cities expansion for coverage.

KP Performance WiFi antenna supports low-latency, bandwidth-hungry applications like high-definition video and augmented reality or virtual reality. The gain of the single-band antenna is 17 dBi for the frequency range of 2.3 GHz to 2.7 GHz. This KP-2SX8-65 WISP antenna is suitable for IOT, IIOT and various 5G and 4G LTE bands.

The KP performance has the largest in-stock collection of 8-port WISP sector antennas for your critical equipment and power sources. Quickly 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 2.3 GHz to 2.7 GHz WISP sector antennas as per your requirements.

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	2,300		2,700	MHz
Input VSWR			1.7:1	

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Impedance	50	Ohms
Gain	17	dBi
Front to Back Ratio	26	dB
Port to Port Isolation	25	dB
Horizontal (Azimuth) HPBW	65	Degrees
Vertical (Elevation) HPBW	7	Degrees
Input Power	100	Watts

Mechanical Specifications

Radome Material	PVC
Size	
Length	16.22 in [411.99 mm]
Width	5.35 in [135.89 mm]
Height	35.43 in [899.92 mm]
Mounting Mast Diameter	1.37795 to 1.9685 in [35.00 to 50.00 mm]
Weight	26.95 lbs [12.22 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	134.216 MPH [216 KPH]
Wind Loading	

Plotted and Other Data

Notes:

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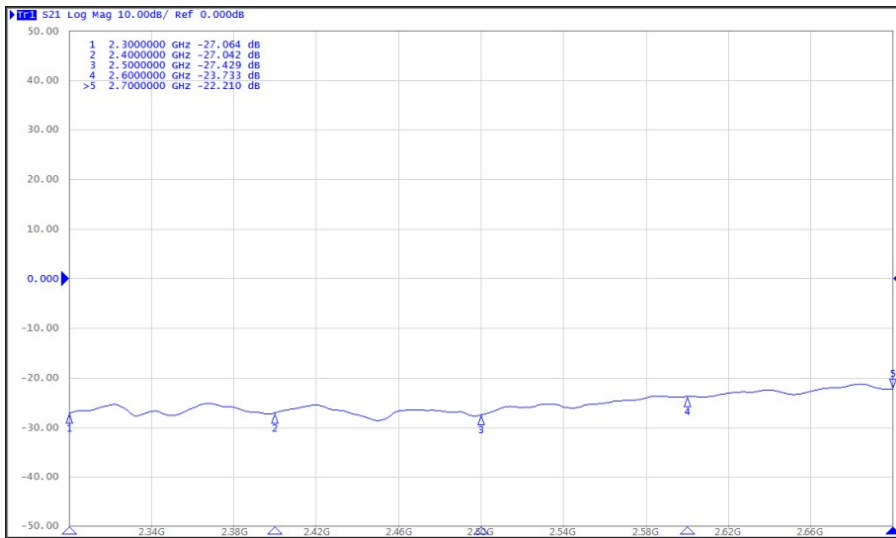
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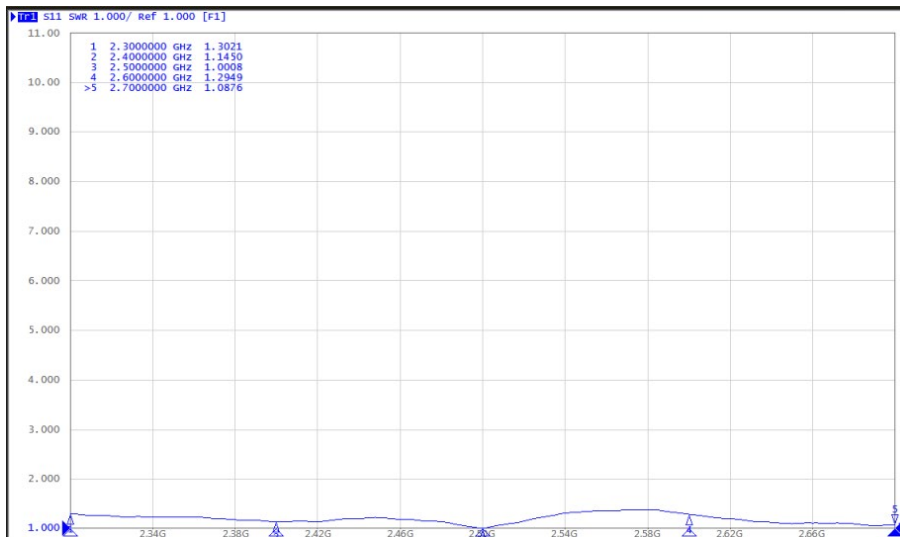


Typical Radiation Pattern

Isolation:



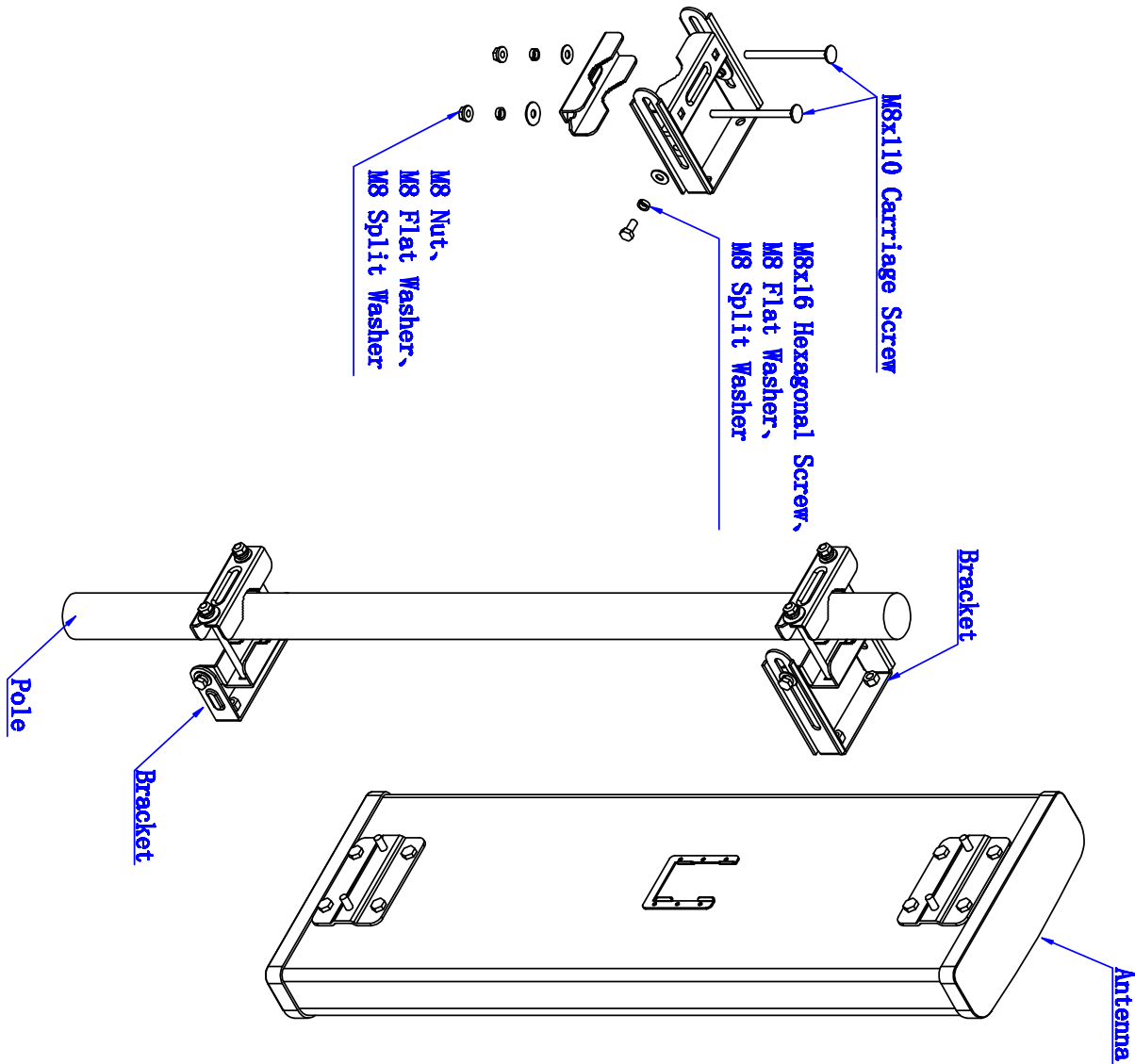
VSWR:



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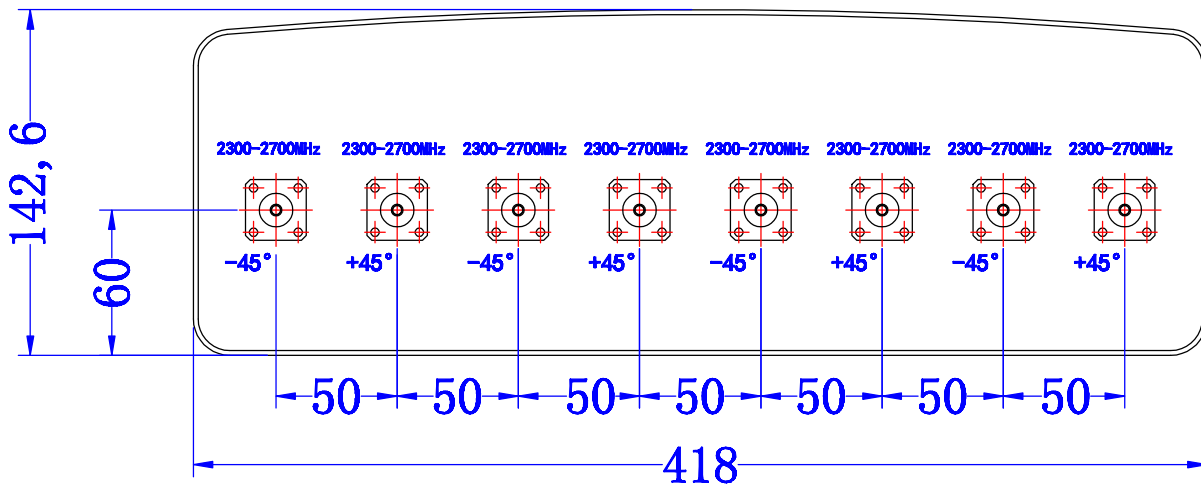
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Unit:mm

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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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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-2SX8-65 CAD Drawing

