

Product Data Sheet



KP-2S3S5HVX8-65

2.3 GHz to 2.7 GHz + 3.3 GHz to 3.8 GHz + 4.9 GHz to 5.9 GHz, 65 Degree Tri Band Sector Antenna, 8-Port, Horizontal/Vertical (Three Sectors in One Shell)

- Supports 2x2 MIMO in each 2 GHz, 3 GHz, & 5 GHz bands
- Optimized Upper Elevation Side Lobes and Front to Back

Electrical Specification

Frequency Band	MHz	2300-2700	3300-3800	4900-5900
Gain	dBi	16±1	18±1	19±1
No. of Ports		2	4	2
Polarization		±45	±45	H/V
Horizontal HPBW	Degree	65±5	65±5	65±5
Horizontal Squint	Degree	±3	±3	±4
Vertical HPBW	Degree	12±2	8±1	7±3
Electrical Downtilt	Degree	0	0	0
Upper Side Lobe Suppression (Peak to 20°)	dB	15	15	15
Front-to-Back Ratio @ 180°±30°	dB	30	30	30
Cross-polarization Ratio over HPBW	dB	20	20	20
VSWR		1.5:1	1.5:1	1.7:1
Return Loss	dB	14	14	12
Port-to-Port Isolation Same Band	dB	25	25	25
Port-to-Port Isolation Out Band	dB	40	40	45
Max. Input Power per Port	W	50	50	50
Impedance	Ohms	50	50	50

Mechanical Specifications

RF Connector Type	N-Type Female
RF Connector Quantity	8
RF Connector Position	Bottom of Radome
Electrical Grounding	RF connector grounded to reflector and mounting bracket
Radome Material	UV resistant PVC
Reflector Material	Fully Enclosed Aluminium
Ingress Protection	IP55 rain and dust resistant
Wind Load, frontal	330N @ 160km/h 74lbf @ 100mph
Max. Wind Speed	160km/h 100mph
Temperature Range	-40° to +60° C -40° to +140° F

Bracket Specifications

Material Type	Powder Coated High Strength Aluminium
Mechanical Downtilt (Degree)	-20 to + 20
Mounting Type	Pipe Mount
Mounting pole diameter	19 mm – 114 mm 0.75 in – 4.5 in
Antenna-to-Pipe Distance	121 mm 4.8 in
Bracket-to-Bracket Distance	610 mm 24 in

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Sector Dimensions

Length	991 mm	39 in
Width	279 mm	11 in
Height	89 mm	3.5 in
Net Weight, with brackets	4.3 kg	9.5 lb

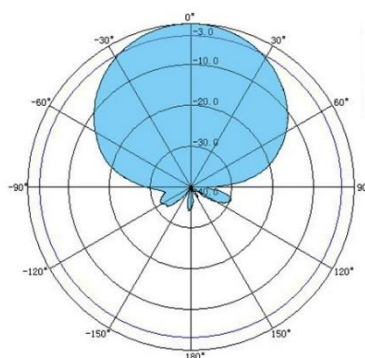
Shipping Dimensions

Length	1360 mm	50.5 in
Width	355 mm	14.0 in
Height	200 mm	7.9 in
Net Weight	11.8 kg	26.0 lb

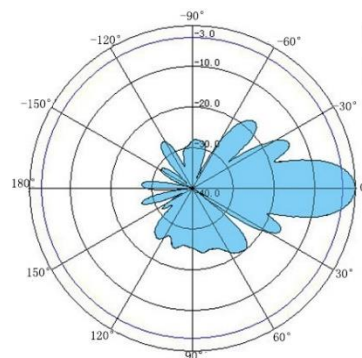
Graphical Data



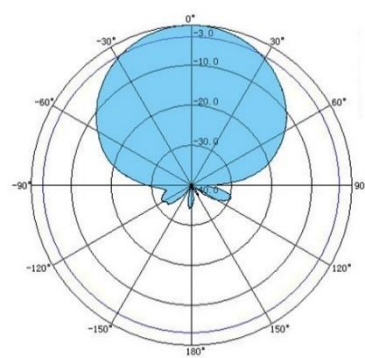
2.4 GHz Azimuth



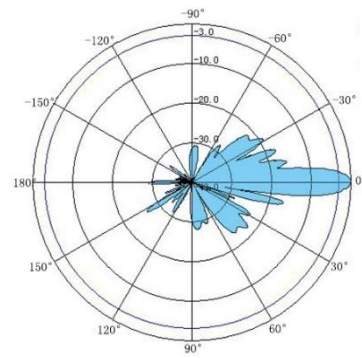
2.4 GHz Elevation



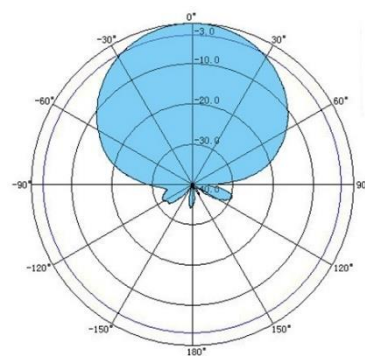
3.5 GHz Azimuth



3.5 GHz Elevation



5.5 GHz Azimuth



5.5 GHz Elevation

