

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 |

Product Data Sheet

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 |

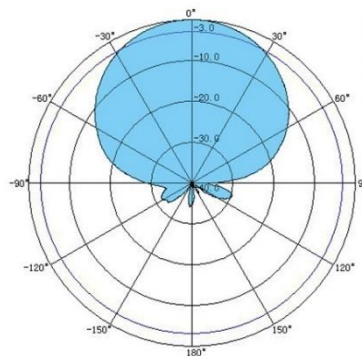
Shipping Dimensions

| | | | |
|------------|---------|--|---------|
| 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 |

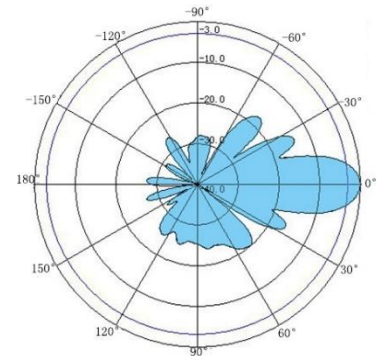
Graphical Data



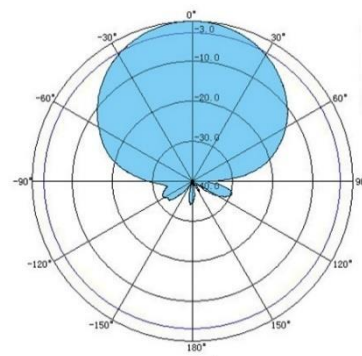
2.4 GHz Azimuth



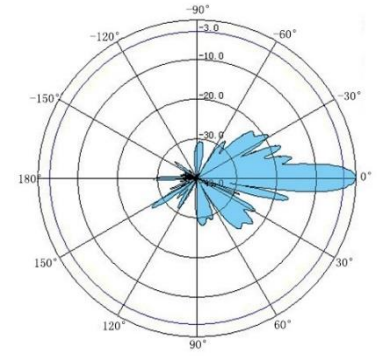
2.4 GHz Elevation



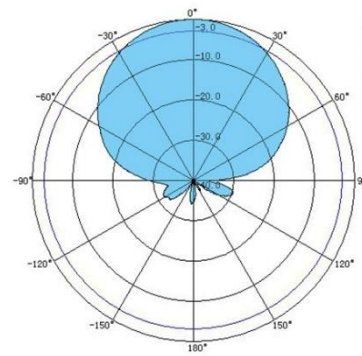
3.5 GHz Azimuth



3.5 GHz Elevation



5.5 GHz Azimuth



5.5 GHz Elevation

