# Product Data Sheet

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## **Dual-sector antenna KPPA-3S5HV-90SS**

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3 GHz band  $\pm$ 45°  $\pm$ 45° slant polarization, 5 GHz band V/H polarization

The new generation of dual-antennas from KP combine two complete radiating systems within a single rugged radome. This arrangement allows complete coverage while reducing tower rental and installation costs.

#### Features:

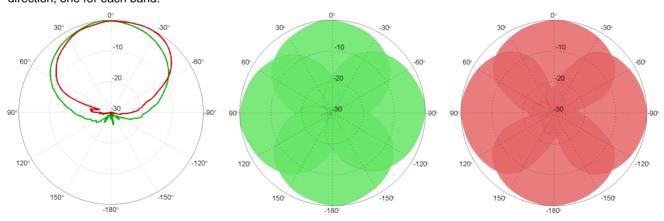
- Two forward-facing 90° sector antennas in a single radome, one for each band
- High gains of 15.9 and 15.9 dBi
- Clean patterns for frequency re-use on the same tower
- Supplied with KP's over-designed universal adjustable bracket, in hot-dip galvanised steel, with wide U-bolts for mounting on poles or tower legs up to 4".
- Mounting space for two ePMP radios on back

#### Advantages:

- Reduced inches on tower, only 27.5" tall
- Single mounting point means half the tower rental
- Lower wind resistance than two equivalent sectors
- Allows upgrade path to add a frequency band without using more space on tower.
- Faster installation than two single-band sectors

#### **Overview pattern diagrams:**

A single KPPA-3S5HV-90SS has two dual-pol ports, facing in the same direction, one for each band.



#### Also available:

- 2, 3 and 5 GHz single-band dual sectors in a single radome
- 2/3 and 3/5 GHz dual-band sectors in a single radome
- 2, 3 and 5 GHz single-band quad-pol sector antennas

### KPPA-3S5HV-90SS Detailed specifications

Electrical	Port A	Port B
Frequency range	3500-3700	5400-5900
Polarization	±45 °	V/H
Gain	15.9 dBi	15.9 dBi
Azimuth 3dB beamwidth	90 °	90 °
Elevation 3dB beamwidth	6.9 °	4.9 °
Electrical Downtilt	< 1 °	
VSWR, Return loss	< 2:1. < 10 dB	
F/B ratio	> 28 dB	> 28 dB
Cross-pol ratio	> 17 dB	> 30 dB
Port to port isolation, in-band	> 19 dB	> 24 dB
between bands	> -27 dB	
ABAB frequency re-use	-26 dB	-30 dB
ABABAB frequency re-use	-18 dB	-24 dB
ABCABC frequency re-use	-26 dB	-30 dB



Input power	50 W max par part	
Input power	50 W max per port	
Connector Type	Type N Female x 4	
Mechanical		
Dimensions	27.5 x 8.75 x 4.5"	
Weight	9.0 lb	
Mounting method	Carriage bolts	
Mounting pole dia	11/4" – 3 1/2"	
Surface Finish	Matt powder coat	
Environmental		
Temperature range	-40° to +60° C / +140° F	
Wind speed	160 km/h / 100 mph	
UV protection	UV resistant UPVC	
Ingress protection	IP55 rain resistant	

