

Product Data Sheet



KP-900-DPOMA-45

2-port OMNI antenna, 800-1000 MHz, Dual $\pm 45^\circ$ Slant Polarization

- Operates over licensed 800MHz/900MHz and unlicensed 902-928MHz ISM band
- Supports Cambium PMP 450i 900 MHz AP radio for point to multipoint
- Provides uniform coverage with a minimal azimuth ripple and high gain
- Penetrates dense foliage with 900 MHz dual $\pm 45^\circ$ slant polarization

Electrical Specification

Frequency Band	MHz	800—900	900—928	928—1000
Gain	dBi	8.5 \pm 1	10 \pm 0.5	9.5 \pm 1
Polarization		Slant ($\pm 45^\circ$)	Slant ($\pm 45^\circ$)	Slant ($\pm 45^\circ$)
Horizontal HPBW	Degree	360	360	360
Vertical HPBW	Degree	17 \pm 1	16 \pm 1	15 \pm 1
Electrical Downtilt	Degree	1	1	1
Cross-polarization Ratio	dB	8 typ	8 typ	8 typ
VSWR		1.7 typ 2 max	1.5 typ 1.7 max	1.7 typ 2 max
Return Loss	dB	12 typ 10 max	14 typ 12 max	12 typ 10 max
Port-to-Port Isolation	dB	20	25	20
Max. Input Power per Port	W	100	100	100
Impedance	Ohms	50	50	50

Mechanical Specifications

RF Connector Type	Type N Female
RF Connector Quantity	2
RF Connector Position	Bottom of radome
Electrical Grounding	RF connector grounded to reflector and mounting bracket
Radome Material	UV resistant PVC
Ingress Protection	IP55 rain and dust resistant
Operating Temperature	-40° to +65° C
Max. Wind Speed	210km/h 130mph

Bracket Specifications

Material Type	Power Coated Galvanized Steel
Mounting Type	Pipe Mount
Mounting pole diameter	30 mm – 120 mm 1.2 in – 4.7 in

OMNI Dimensions

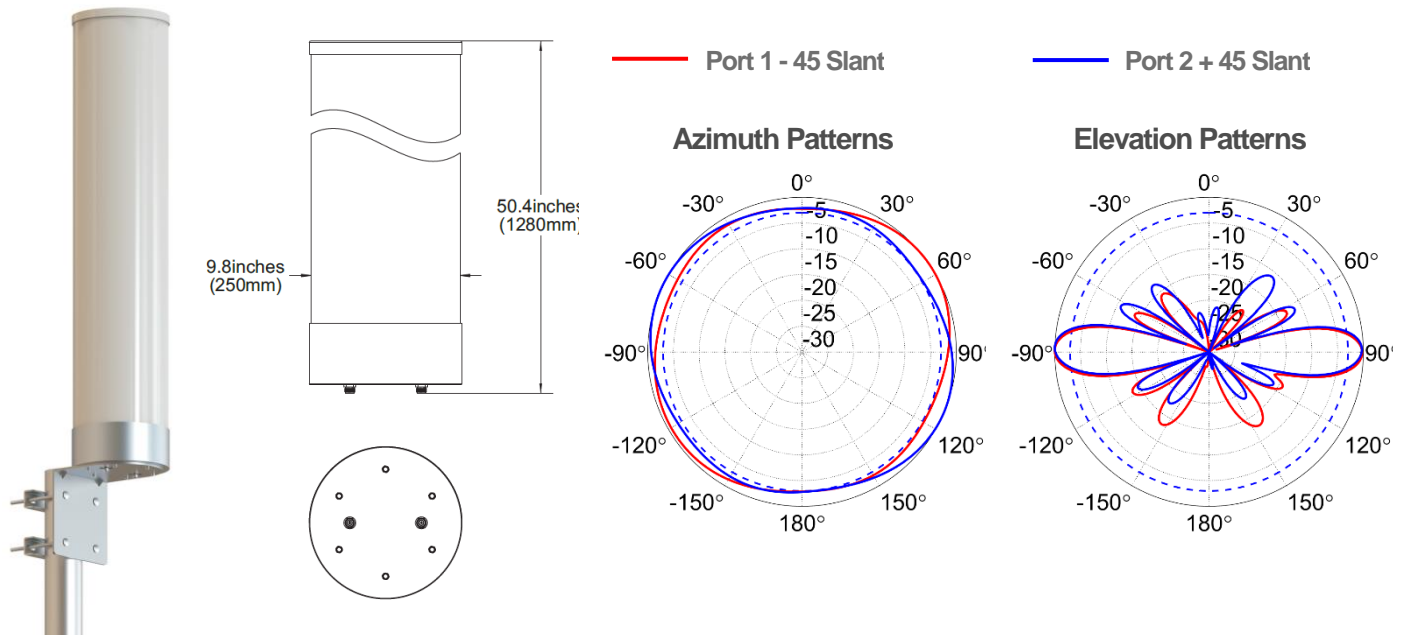
Diameter	250 mm 9.8 in
Length	1280 mm 50.4 in
Net Weight, with brackets	18.0 kg 39.6 lb

Product Data Sheet

Package Dimensions

Length	1310 mm		51.6 in
Width	320 mm		12.6 in
Height	390 mm		15.4 in
Net Weight	19.5 kg		43.0 lb

Graphical Data



Appendix

HPBW: Average and variation of the antenna's 3dB beamwidth in its horizontal (Azimuth) or vertical (Elevation) pattern.

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain and variation in each frequency band.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the OMNI's 360deg azimuth pattern.