

Product Data Sheet

1-855-276-5772 or 780-702-7577
info@kppperformance.com
15397 117 Ave, Edmonton, AB T5M3X4, Canada



KP-900-DPOMA-45

2-port OMNI antenna, 824-928 MHz, Dual $\pm 45^\circ$ Slant Polarization

- Supports Cambium PMP 450i 900 MHz AP radio for point to multipoint
- Provides uniform coverage with a minimal azimuth ripple and high gain

Electrical Specification

Frequency Band	MHz	824—900	900—928
Gain	dBi	8.5 \pm 1	10.0 \pm 0.5
Polarization		Slant ($\pm 45^\circ$)	Slant ($\pm 45^\circ$)
Horizontal HPBW	Degree	360	360
Vertical HPBW	Degree	17 \pm 2	15 \pm 1
Electrical Downtilt	Degree	1	1
Cross-polarization Ratio	dB	8 typ	9 typ
VSWR		1.7 typ 2 max	1.5 typ 1.7 max
Return Loss	dB	12 typ 10 max	14 typ 12 max
Port-to-Port Isolation	dB	20	30
Max. Input Power per Port	W	100	100
Impedance	Ohms	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

Package Dimensions

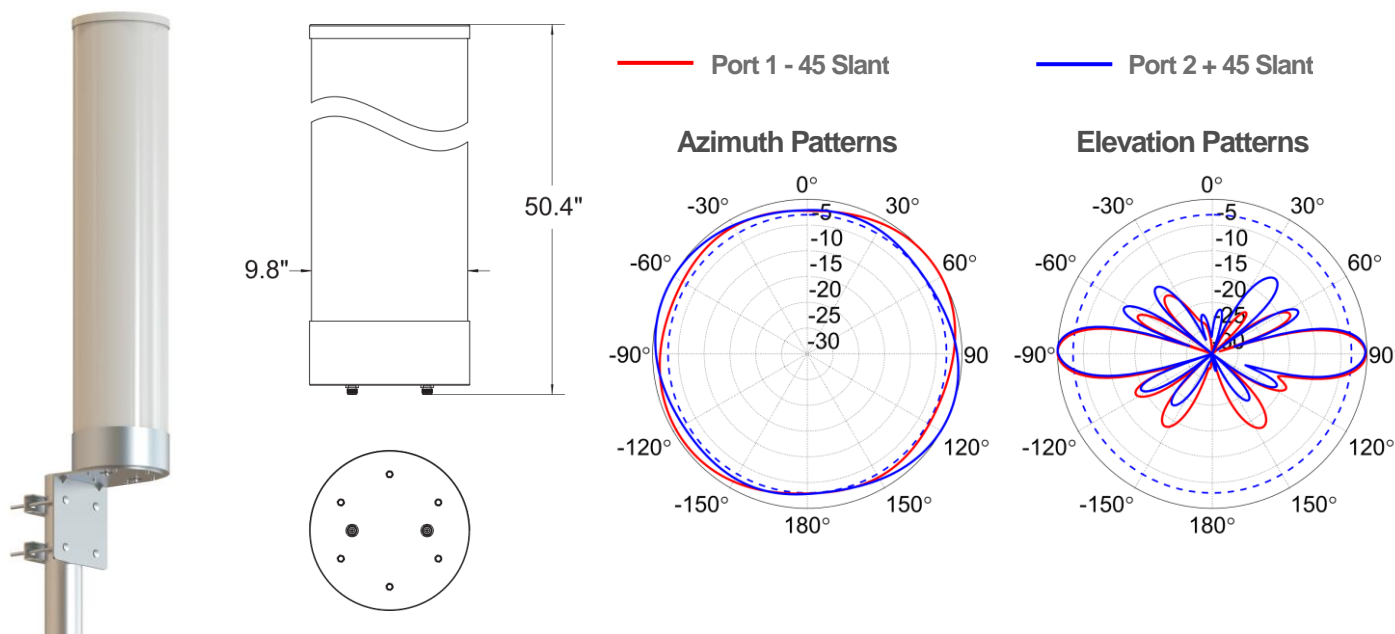
Length	1310 mm 51.6 in
Width	320 mm 12.6 in
Height	390 mm 15.4 in
Net Weight	19.5 kg 43.0 lb

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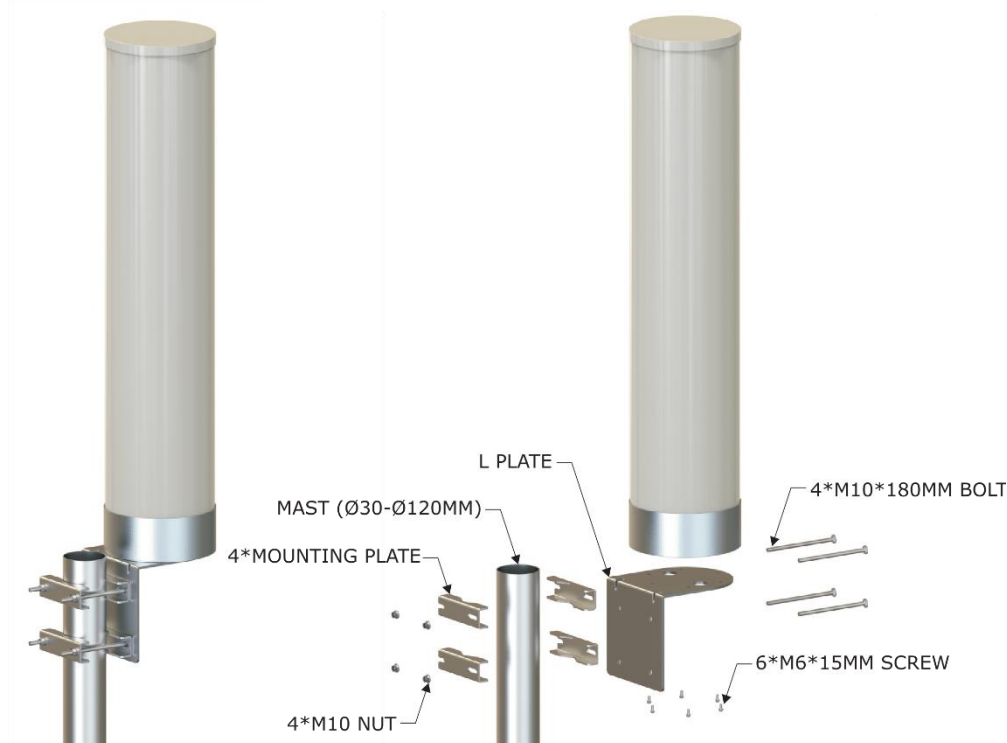
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Graphical Data



Installation Guide



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.