Product Data Sheet

KP-3QOMNI-8

4-port OMNI antenna, 3500-3800 MHz, 8.5 dBi, 4-Port, +/- 45 Slant Polarization

- Double the capacity with two dual polarization OMNI arrays in single radome enclosure with one mounting point
- The small 28” OMNI limits the tower footprint and provides 360 coverage with 8.5 dBi gain
- Supports one 4x4 MIMO or two 2x2 MIMO radios in CBRS band 3.5 – 3.8 GHz

Electrical Specification

Frequency Band	MHz	3500—3800
Gain	dBi	8.5
Polarization		+/- 45 Slant
Horizontal HPBW	Degree	360
Vertical HPBW	Degree	11±1
Electrical Downtilt	Degree	<1
Cross-polarization Ratio	dB	10
VSWR		1.5 typ | 1.7 max
Return Loss	dB	14 typ | 12 max
Port-to-Port Isolation	dB	25
Max. Input Power per Port	W	100
Impedance	Ohms	50

Mechanical Specifications

RF Connector Type	Type N Female
RF Connector Quantity	4
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
Survival Wind Speed	210km/h | 130mph
Wind Load Frontal	110 N | 25 lbf

Bracket Specifications

Material Type	Power Coated Galvanized Steel
Mounting Type	Pipe Mount
Mounting pole diameter	40 mm – 89 mm | 1.6 in – 3.5 in

OMNI Dimensions

Diameter	160 mm | 6.3 in
Length	707 mm | 27.8 in
Net Weight, with brackets	5.5 kg | 12.0 lb

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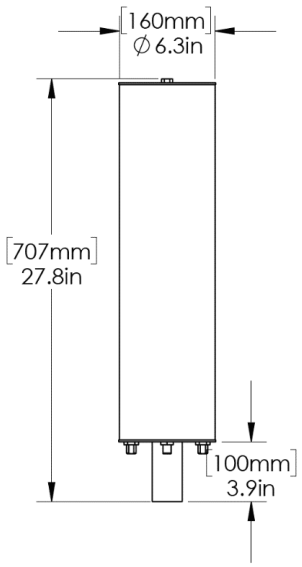
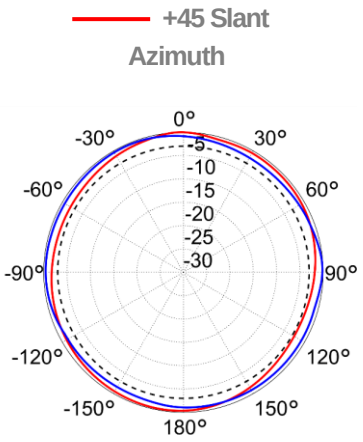
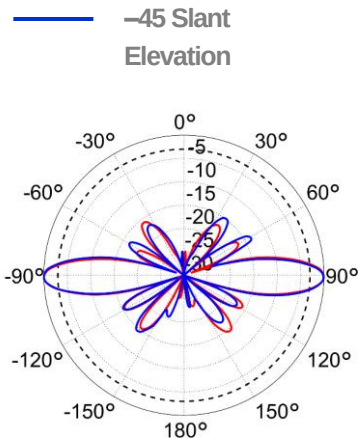
Package Dimensions

Length	760 mm	|	29.9 in
Width	220 mm	|	8.7 in
Height	220 mm	|	8.7 in
Net Weight	6.0 kg	|	13.2 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): Maximum difference between the co-polarization and cross-polarization gain across the OMNI's 360deg azimuth pattern.

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