

Product Data Sheet

KP-50MNI-EPMP3K-KIT (Replaces KP-50SOMNI-13)

**4-port OMNI antenna, 5150-5950 MHz, 13 dBi, Slant Polarization, MU-MIMO
Compatible with 4 x RPSMA Male to N Male 8" Cables with Boots**

- The small 27" OMNI limits the tower footprint and provides 360° coverage with 13 dBi gain, making it ideal for micro-pop deployments
- Realize the full capabilities of 4x4 MU-MIMO with Cambium's ePMP3000 using the OMNI's two overlapping bidirectional dipole-like patterns that provide high gain to maximize your coverage area and low side lobes to improve isolation between MIMO chains
- Includes radio adapter with aluminium cover that provides additional protection from the environment
- Includes 4 cables of KP-RSMA-N-8-B (RP SMA Male to N Male Cable with Rubber Boots Using 8 Inch LMR-195)

Electrical Specification

Frequency Band	MHz	5150—5950
Nominal Gain	dBi	13
Polarization		Slant ($\pm 45^\circ$)
Horizontal HPBW	Degree	360 (Two Overlapping dipoles)
Vertical HPBW	Degree	7 \pm 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
Operating Temperature	-40° to +65° C
Max. Wind Speed	210km/h 130mph
Ingress Protection	IP66 rain and dust resistant

Bracket Specifications

Material Type	Power Coated Galvanized Steel
Mounting Type	Pipe Mount
Mounting pole diameter	40 mm – 76 mm 1.6 in – 3 in

OMNI Dimensions

Diameter	97mm 3.8 in
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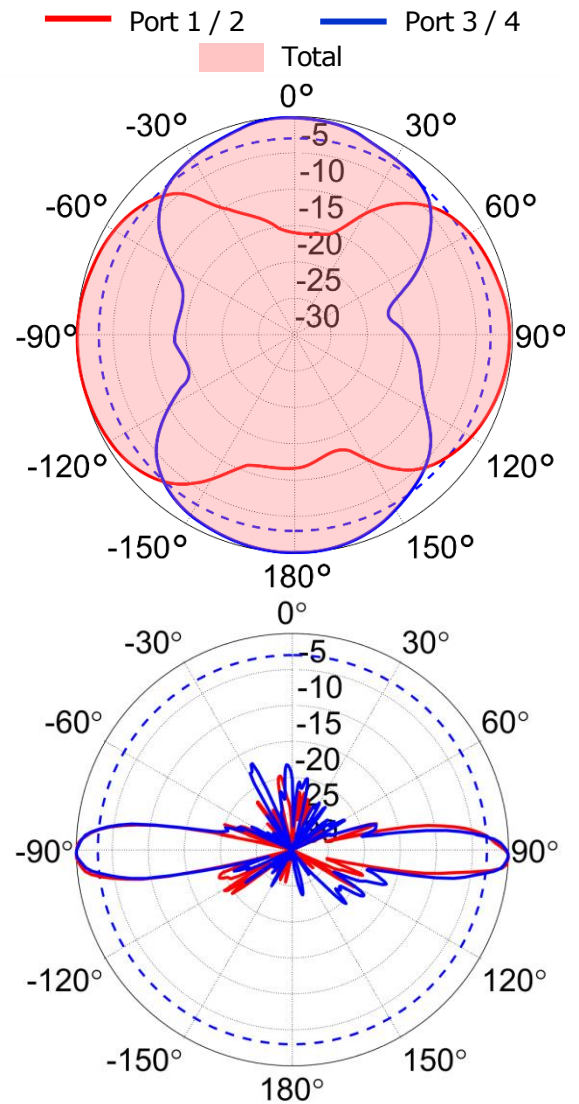
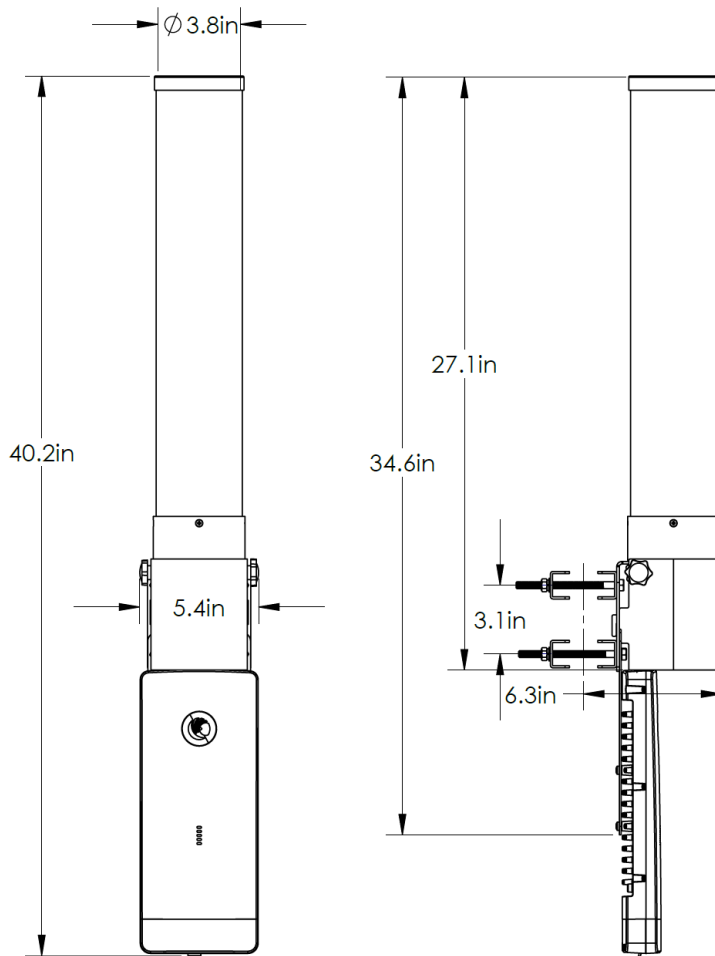
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Length, with radio adapter	879 mm 34.6 in
Net Weight, with brackets	4.5 kg 10.0 lb

Package Dimensions

Length	770 mm 30.3 in
Width	190 mm 7.5 in
Height	180 mm 7.0 in
Net Weight	5.0 kg 11.0 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.

Nominal Gain: Antenna's typical gain across the frequency band.

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