

# 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	$-40^\circ$ to $+65^\circ$ C
Max. Wind Speed	210km/h   130mph

### 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

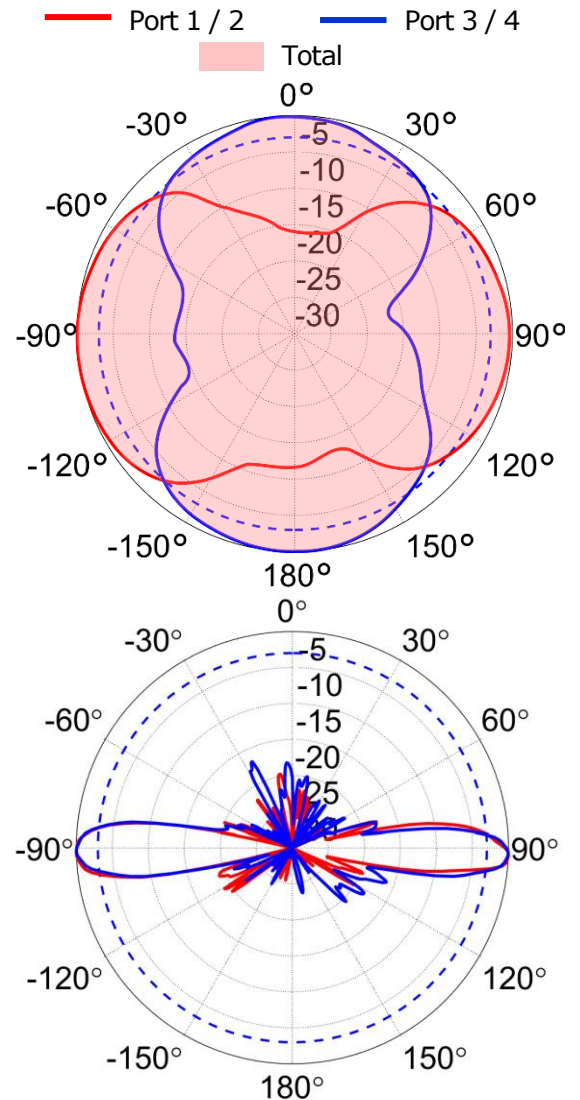
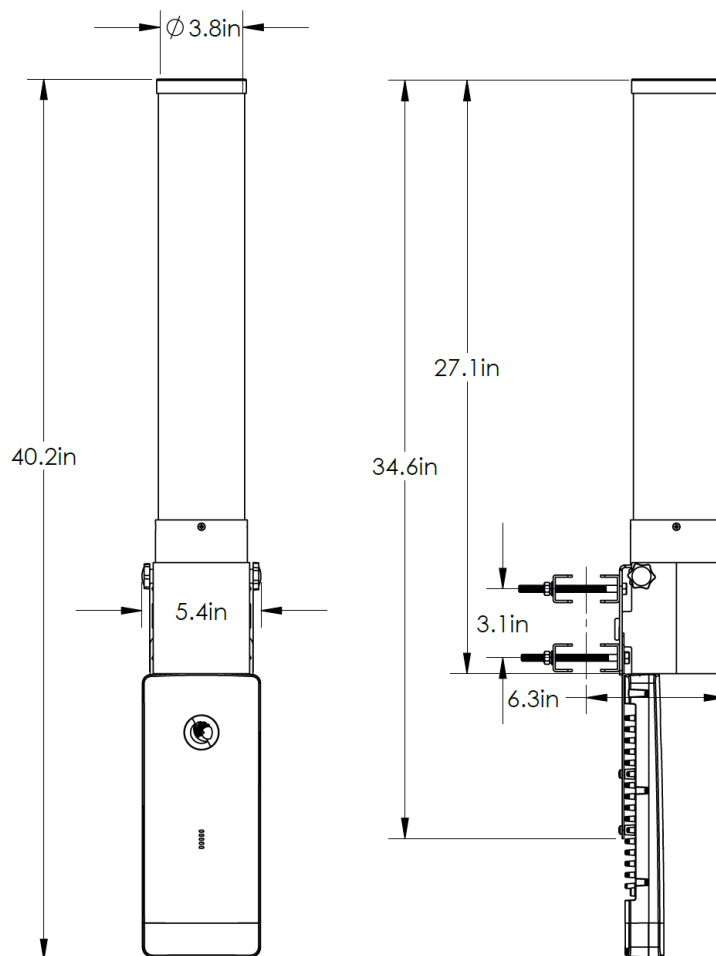
Diameter	97mm   3.8 in
Length, with radio adapter	879 mm   34.6 in
Net Weight, with brackets	4.5 kg   10.0 lb

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## 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.