# 5 GHz 90° 4x4 Asymmetrical Horn Antenna

# **HIGH PERFORMANCE 4x4 HORN ANTENNA**

This 5 GHz 4x4 Asymmetrical Beam antenna is designed for excellent performance with MU-MIMO radios, such as ePMP 3000 or ePMP 4500. 4x4 Antenna Array is based on Award Winning 90° Asymmetrical Horn Antenna elements. Overall radiation pattern is 90° wide in the azimuth plane and 25° in elevation.

Outstanding noise rejection and precision of the radiation pattern throughout the bandwidth of operation favor the antenna for high-density access point clusters and densely co-located sites. Antenna features RP-SMA female connectors and integrated mount of ePMP 3000 4x4 radio.

Asymmetrical Horn antennas were awarded WISPA Product of the Year 2019, 2020 and 2021 Awards.



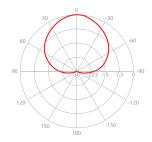
### **TECHNICAL DATA**

Radio Connection	4x RP-SMA Female Connector
Pigtails	4x RP-SMA Male Connector 750mm (29.5 inch)
Antenna Type	Horn
Materials	UV Resistant ABS Plastic, Polycarbonate, HDPE, Aluminium, Stainless Steel
Environmental	IP55
Pole Mounting Diameter	40-80 mm (1.5-3.1 inch) Recommended as close to 80 mm (3.1 inch) as possible, recommended mounting on stand off bracket
Temperature	-35°C to +60°C (-31°F to +140°F)
Wind Survival	160 km/h (100 mi/h)
Wind Load	173/93 N - Front/Side at 160 km/h (100 mi/h)*
Effective Projected Area	2252/754 cm <sup>2</sup> - Front/Side (349.0/116.9 in <sup>2</sup> )*
Mechanical Adjustment	± 20° Elevation
Weight	10.6 kg (23.3 lbs) – single unit* 14 kg (30.8 lbs) – single unit incl. package*
Single Unit	Retail Box: 485 × 420 × 396 mm (19 x 16.5 x 15.5 inch)*

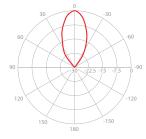
# PERFORMANCE

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Frequency Range	5180 - 6000 MHz
Gain	16 dBi
Azimuth Beam Width -3 dB	H 60° / V 60°
Elevation Beam Width -3 dB	H 16°/V 16°
Azimuth Beam Width -6 dB	H 90° / V 90°
Elevation Beam Width -6 dB	H 25° / V 25°
Beam Efficiency	90 %*
Front-to-Back Ratio	30 dB
VSWR Typical	1.5
Polarization	Dual Linear H + V
Impedance	50 OHm

SINGLE CHANNEL AZIMUTH PATTERN



#### SINGLE CHANNEL ELEVATION PATTERN

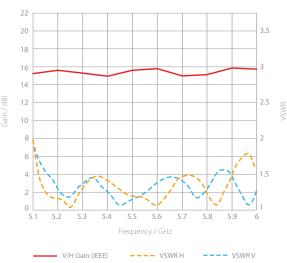


**ELEMENTS**<sup>®</sup>

/H - Port Pattern Azimuth 5.6 GHz

V/H - Port Pattern Elevation 5.6 GHz

GAIN



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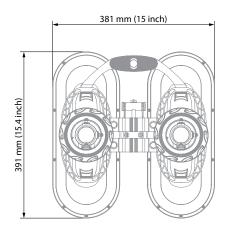
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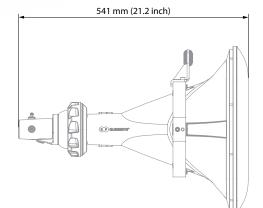
**Product Datasheet** 

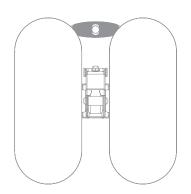
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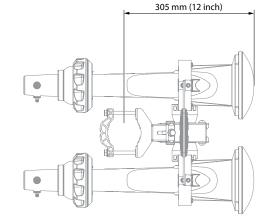


## **PRODUCT DIMENSIONS**

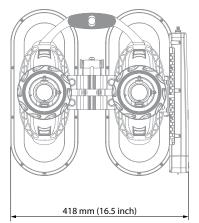


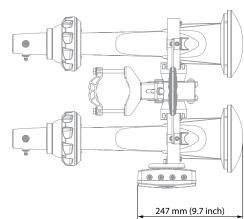






Product dimensions with Cambium ePMP 3000 Radio sold separately





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