

90° 6 GHz 4x4 Asymmetrical Horn WB

4X4 HORN ANTENNA WITH WIDEBAND PERFORMANCE COVERING 5 GHZ AND 6 GHZ UNLICENSED BANDS

90° Asymmetrical Horn Antennas have asymmetrical beam patterns with highly suppressed sidelobes. They offer excellent noise rejection and supreme scalability options. They are perfect for high-density AP clusters and dense co-location deployments.

Ultimate Wideband Performance in 4x4

AH90WB-4x4-SMA provides unique wideband performance covering 5 & 6 GHz unlicensed spectrum bands with balanced H+V beams and stable gain and radiation patterns. This 4x4 Horn Antenna is designed for excellent wideband performance with 4x4 radios.

Ultimate Versatility

AH90WB-4x4-SMA provides TwistPort™ waveguide connectors as well as specific coaxial RP-SMA interface tuned for 6 GHz band. Antenna allows mounting of two connectorized radios as well as using two TPA of choice, while covering full 4900 - 7125 MHz. This makes it a highly versatile tool for any deployment within the antenna working band. Antenna can be used as 4x4, dual or single 2x2, 5 GHz, 6 GHz, wideband 5 & 6 GHz using connectorized radios with pigtailed or with TPA.

New Innovative Design

AH90WB-4x4-SMA has completely new industrial design and is built using highly resistant materials for reduced weight, ultimate outdoor resistance and durability.



TECHNICAL DATA

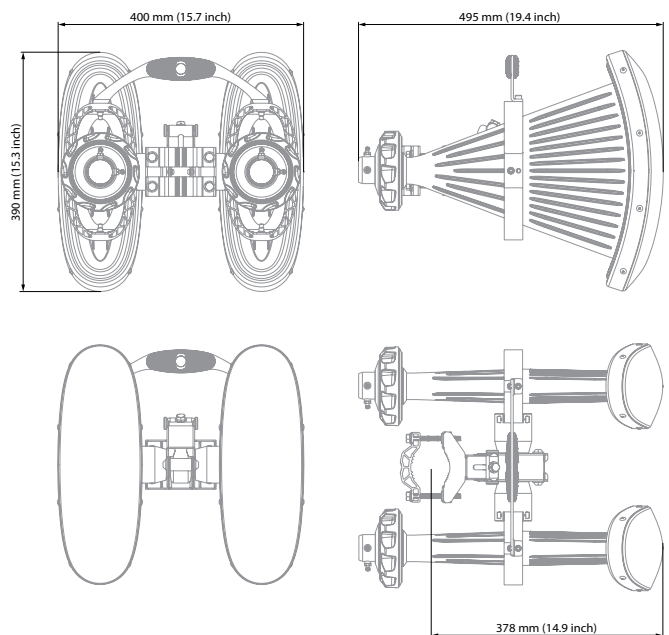
Radio Connection	TwistPort™ Waveguide Connector, 2x RP-SMA Female
Pigtails in Package	4x RP-SMA Male Connector 750mm (29.5 inch)
Antenna Type	Horn
Materials	Aluminium, Stainless Steel, ABS, PMMA, Zinc Alloy
Environmental	IP65
Pole Mounting Diameter	40-80 mm (1.5-3.1 inch) Recommended as close to 80 mm (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	118/74 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	1115/602 cm² - Front/Side (173/93.3 in²)
Mechanical Adjustment	± 20° Elevation, ± 20° Azimuth
Weight	5.6 kg / 12.3 lbs – single unit ** 9.0 kg / 19.8 lbs – single unit incl. package **
Single Unit	Retail Box: 490 x 435 x 435 mm (19.2 x 17.1 x 17.1 inch) **

PERFORMANCE

Frequency Range	4900 - 7125 MHz with waveguide port 5700 - 7125 MHz with RP-SMA in package Check our online SpecCheck for performance data of the particular combination of feed (TPA) and antenna
Gain	15 dBi
Azimuth Beam Width -3 dB/-6dB	H 55°, V 73° / H 90°, V 90°
Elevation Beam Width -3 dB/-6dB	H 17°, V 17° / H 25°, V 25°
Beam Efficiency	96 %*
Front-to-Back Ratio	27 dB
VSWR	1.4 (5700 - 7125 MHz) with RP-SMA in package Check our online SpecCheck for performance data of the particular combination of feed (TPA) and antenna
Polarization	Dual Linear H + V
Impedance	50 Ohm

* Beam efficiency defined up to first null ** Subject to change

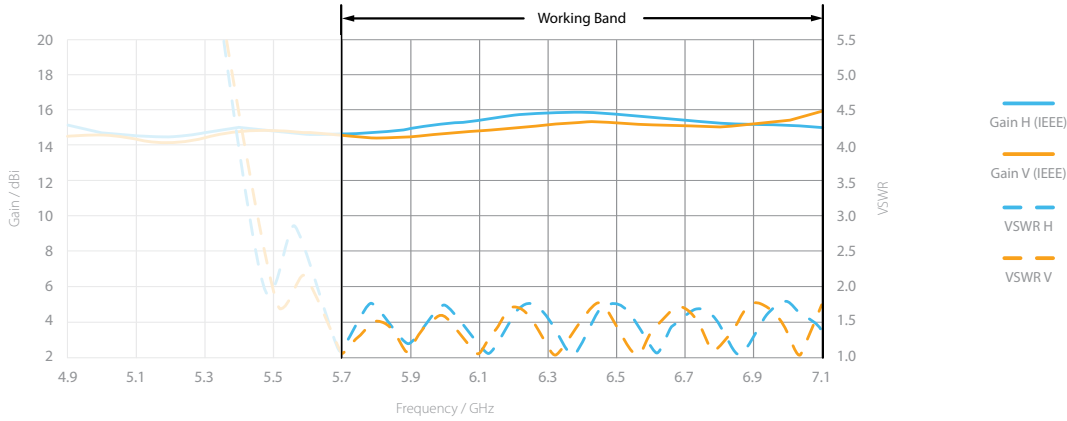
PRODUCT DIMENSIONS



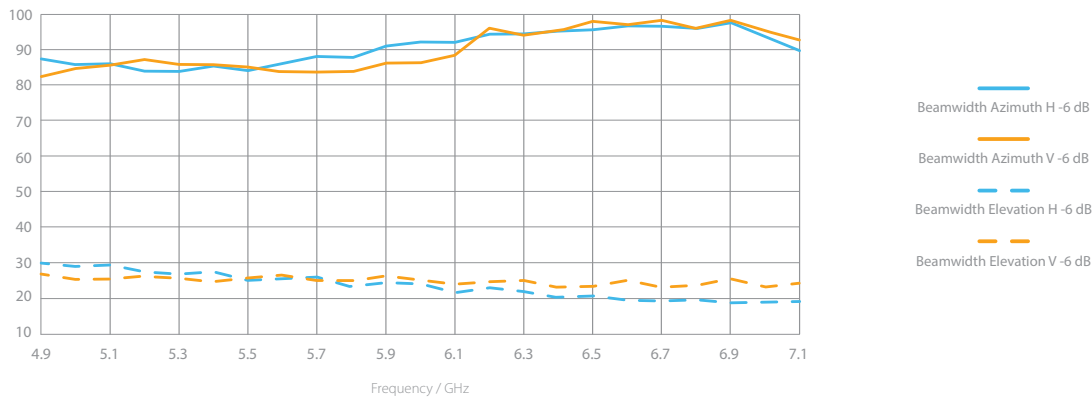
ANTENNA GAIN

Antenna Gain with RP-SMA delivered in package

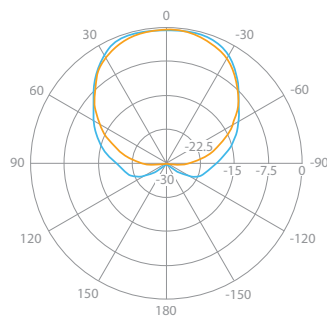
This graph demonstrates the gain of the antenna in boresight with RP-SMA port delivered in package with antenna. This feeding option provides performance tuned specifically for 6 GHz band. As we offer various feeding options, we recommend you to check our SpecCheck for detailed performance graphs and specs of the antennas and feeds of your choice.



ANTENNA BEAMWIDTH

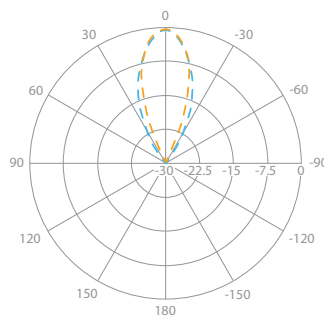


AZIMUTH PATTERN



H - Port Pattern Azimuth 5.5 GHz
V - Port Pattern Azimuth 5.5 GHz

ELEVATION PATTERN



H - Port Pattern Elevation 5.5 GHz
V - Port Pattern Elevation 5.5 GHz