20° Asymmetrical Beam Antenna

HORN ANTENNA WITH N-FEMALE CONNECTORS

The radiation pattern of 20° Asymmetrical Horn CC Antenna is 20° wide in the azimuth plane and 30° in elevation. Increased gain and high beam efficiency greatly improve coverage planning options.

20° Asymmetrical Horn CC Antenna exceeds the traditional patch array sector antennas thanks to the high stability of the radiation pattern throughout the bandwidth of operation. Outstanding noise rejection and precision of the radiation pattern favor the antenna for high-density access point clusters and densely co-located sites. 20° Asymmetrical Horn CC features a pair of N-female connectors ensuring a wide range of radio connectivity.

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

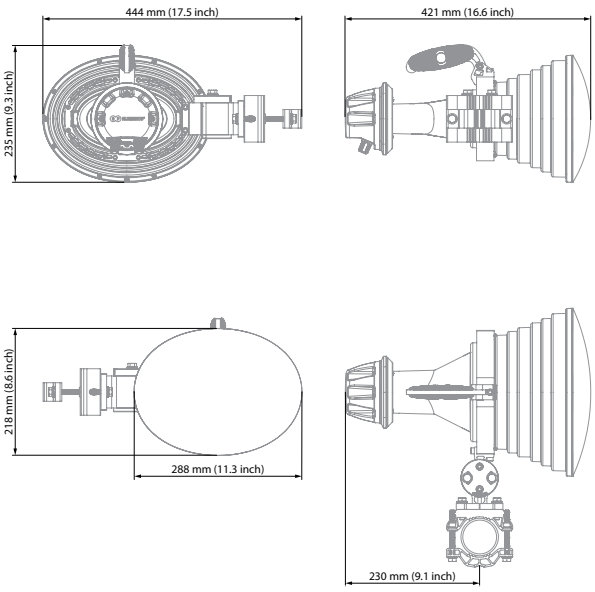
TECHNICAL DATA

Radio Connection	2x N Female Bulkhead Connector
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
Temperature	-35°C to +60°C (-31°F to +140°F)
Wind Survival	160 km/h (100 mi/h)
Wind Load	67/43 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	548/351 cm² - Front/Side (84.9/54.4 in²)
Mechanical Adjustment	± 20° Elevation, ± 20° Azimuth
Weight	4.5 kg (10.0 lbs) – single unit* 6.6 kg (14.6 lbs) – single unit incl. package*
Single Unit	Retail Box: 435 × 360 × 250 mm (17.1 × 14.2 × 9.8 inch)*

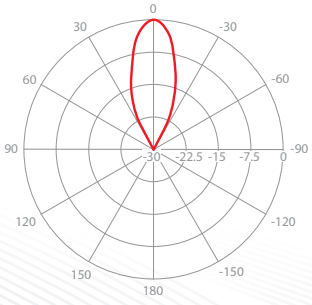
PERFORMANCE

Frequency Range	5180 - 6000 MHz
Gain	20.5 dBi
Azimuth Beam Width -3 dB	H 15° / V 15°
Elevation Beam Width -3 dB	H 21° / V 21°
Azimuth Beam Width -6 dB	H 20° / V 20°
Elevation Beam Width -6 dB	H 30° / V 30°
Beam Efficiency	95 %**
Front-to-Back Ratio	35 dB
VSWR Typical	1.5
Polarization	Dual Linear H + V
Impedance	50 Ohm

PRODUCT DIMENSIONS

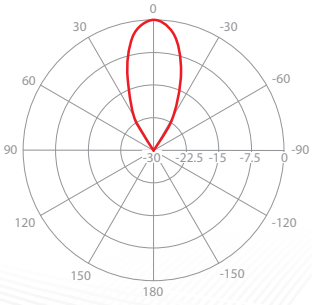


AZIMUTH PATTERN



V/H - Port Pattern Azimuth 5.6 GHz

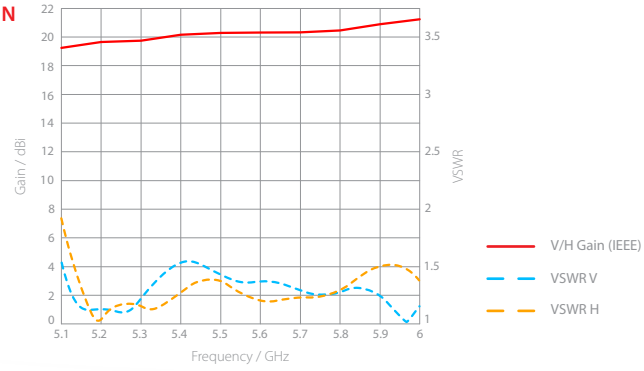
ELEVATION PATTERN



V/H - Port Pattern Elevation 5.6 GHz

*Subject to change, **Main beam defined up to first null

GAIN



This product was produced under the conditions of a certified management system that meets the requirements of the ISO 9001, ISO 14001 and ISO 45001 standard, while this system was certified by QSCert.

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