

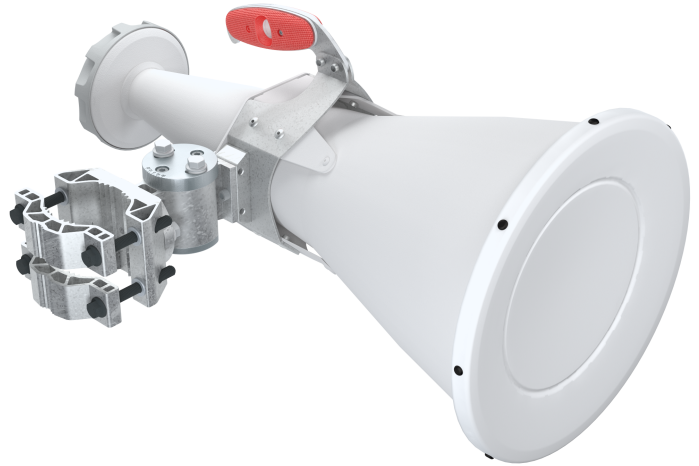
SH20WB 5 + 6 GHz Wideband 20° Symmetrical Horn

Sector Horn Antenna For Highly Scalable Multiband Fixed Wireless Networks

SH20WB is a 20° Symmetrical Horn Antenna with narrow 20° symmetrical beam and attenuated side lobes. This Antenna offers excellent noise rejection in a extremely wide working band covering entire 5 GHz and 6 GHz unlicensed bands. They excel in high-density AP clusters and dense co-location deployments.

These antennas provide unmatched scalability, exceptional longevity, and outstanding cost-effectiveness. Built from highly corrosion-resistant materials, they are designed for long-term deployment in the most demanding environments, including coastal areas and other harsh outdoor conditions.

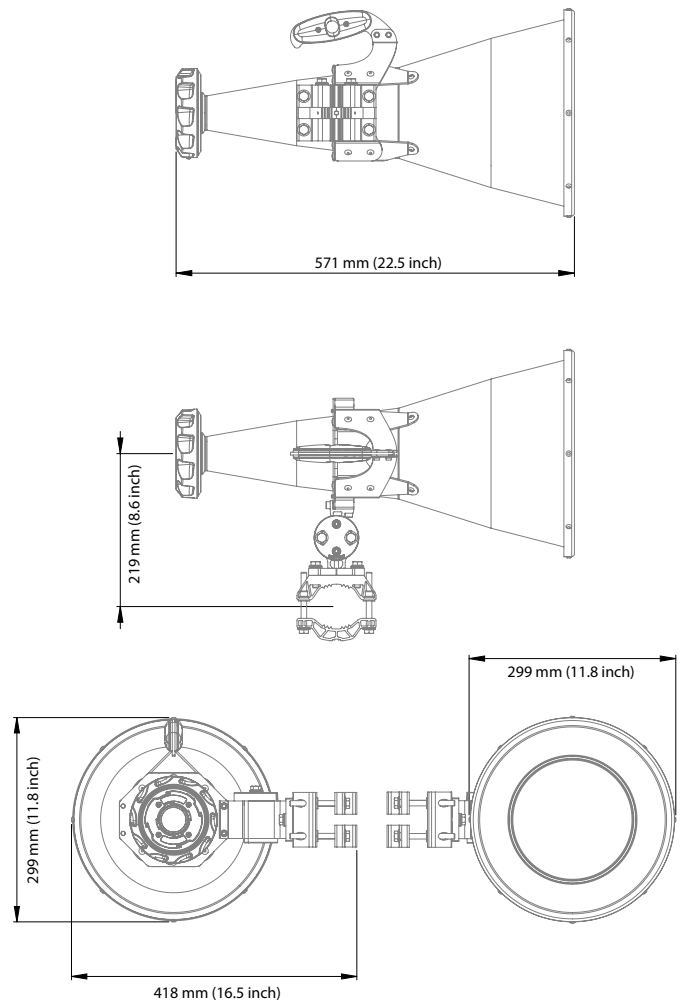
- Wideband performance covering entire 5 GHz and entire 6 GHz unlicensed bands
- Industry-changing TwistPort™ waveguide connector.
- Built of high grade aluminum sheets and extruded aluminum for extreme outdoor resistance including harsh salt water and chemically challenging environments
- Lightweight build for low tower load and low wind loading
- Massive UBR mounting bracket with stainless steel hardware with anti-seize coating
- Industry leading ergonomics with integrated handle for easy deployment
- Highly resistant ABS radome with additional PMMA protection



TECHNICAL DATA

Radio Connection	TwistPort™ Waveguide Connector
Antenna Type	Horn
Materials	Aluminum, Stainless Steel, ABS, PMMA, Zinc Alloy
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 mph)
Wind Load	83/66 N - Front/Side at 160 km/h (100 mph)
Effective Projected Area	683/545 cm ² - Front/Side (105.9/84.5 in ²)
Mechanical Adjustment	± 20° Elevation, ± 20° Azimuth
Weight	3.7 kg / 8.2 lbs – single unit 5.3 kg / 11.7 lbs – single unit incl. package
Dimensions	Single unit retail box: 630 × 340 × 350 mm (24.8 × 13.4 × 13.8 inch)

PRODUCT DIMENSIONS



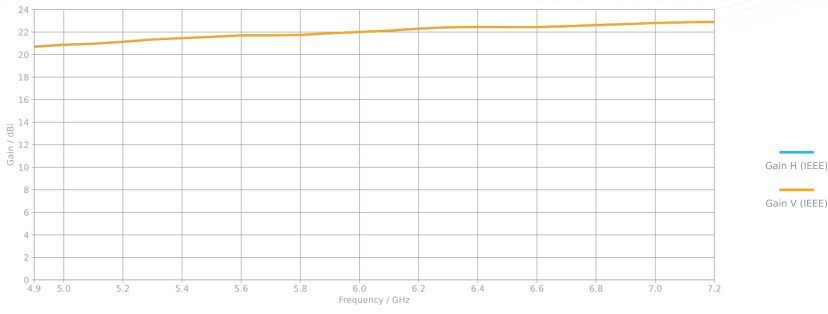
PERFORMANCE

Frequency Range	4900 - 7200 MHz
Gain	21 dBi (4900 - 6000 MHz) 23 dBi (6200 - 7200 MHz)
Azimuth Beam Width -3 dB/-6dB	H 12°, V 14° / H 18°, V 20°
Elevation Beam Width -3 dB/-6dB	H 14°, V 12° / H 20°, V 18°
Beam Efficiency*	93 %
Front-to-Back Ratio	30 dB ≤
VSWR**	≤ 1.6
Polarization**	Dual Linear H + V
Impedance	50 Ohm

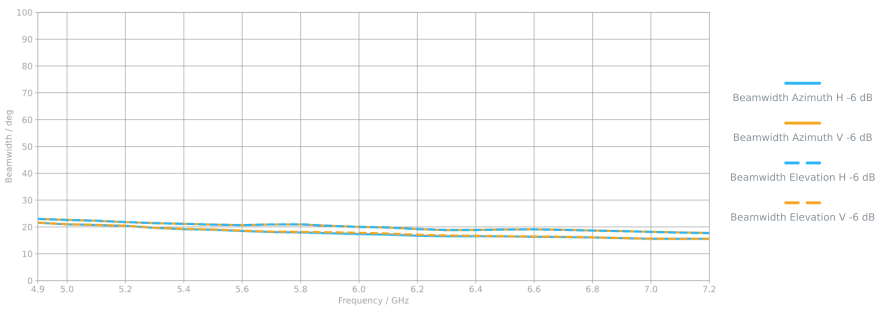
* Beam efficiency defined up to first null

** Defined by connected antenna feed or radio

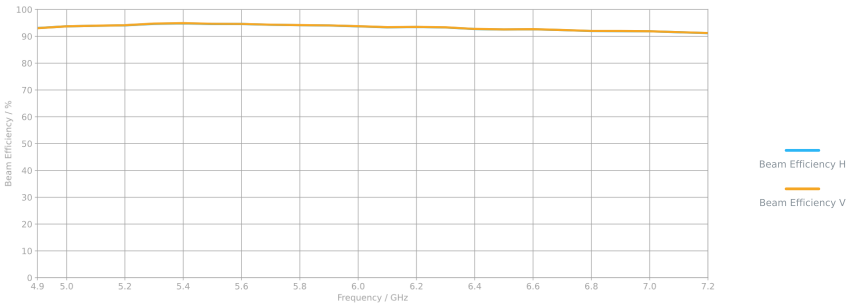
ANTENNA GAIN



ANTENNA BEAMWIDTH



BEAM EFFICIENCY



RADIATION PATTERNS

