

UD29WB 29 dBi Wideband Dish Antenna for 5 + 6 GHz Networks

PARABOLIC DISH ANTENNA FOR HIGH PERFORMANCE CPE DEPLOYMENTS

UltraDish™ 29 WB is a high-gain parabolic dish antenna designed for demanding CPE and fixed wireless applications across the 4900–7125 MHz frequency range.

Its optimized reflector delivers narrow beamwidth, and is optimized for CPE performance. The proprietary TwistPort™ waveguide interface provides a precise, efficient radio connection and supports direct waveguide integration or compatibility with connectorized radios through dedicated TwistPort™ Adapters.

Built from high-grade aluminum with stainless steel hardware and a robust UBR mounting system with dual pole clamp, UltraDish™ 29 WB is engineered for long-term outdoor reliability, including demanding and coastal environments.

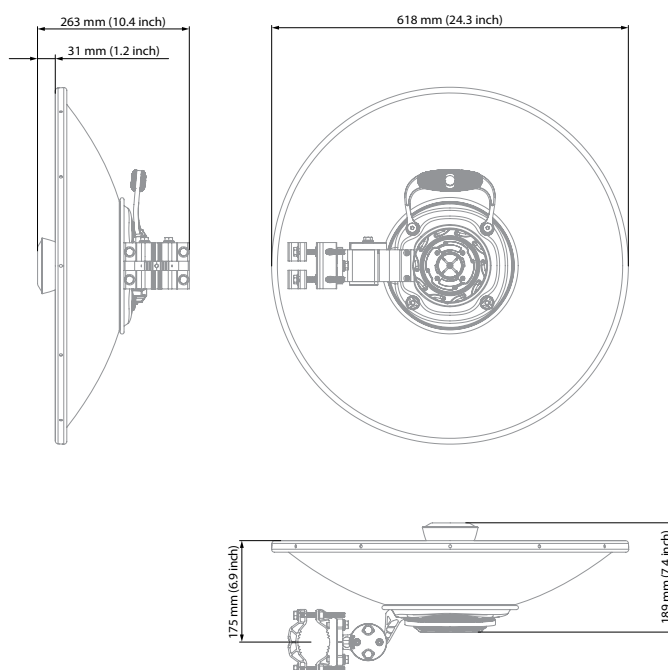
Optional accessories include the RC29 Radome and side strut for increased wind resistance.



TECHNICAL DATA

Radio Connection	TwistPort™ Waveguide Connector
Antenna Type	Parabolic Dish
Materials	UV Resistant ABS plastic, Aluminium, Stainless Steel
Enviromental	IP65
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	371/42 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	3002/281 cm² - Front/Side (465.3/43.5 in²)
Mechanical Adjustment	± 20° Elevation, ± 20° Azimuth
Weight	4.2 kg / 9.2 lbs - single unit 7.8 kg / 17.2 lbs - single unit incl. package 12.5 kg / 27.6 lbs - 2PACK (2 units) incl. package 20.5 kg / 45.2 lbs - 4PACK (4 units) incl. package
Dimensions	Single unit retail box: 735 × 735 × 185 mm (28.9 × 28.9 × 7.2 inch) 2PACK retail box: 700 × 710 × 270 mm (27.6 × 28 × 10.6 inch) 4PACK retail box: 735 × 735 × 265 mm (28.9 × 28.9 × 10.4 inch)

PRODUCT DIMENSIONS



PERFORMANCE

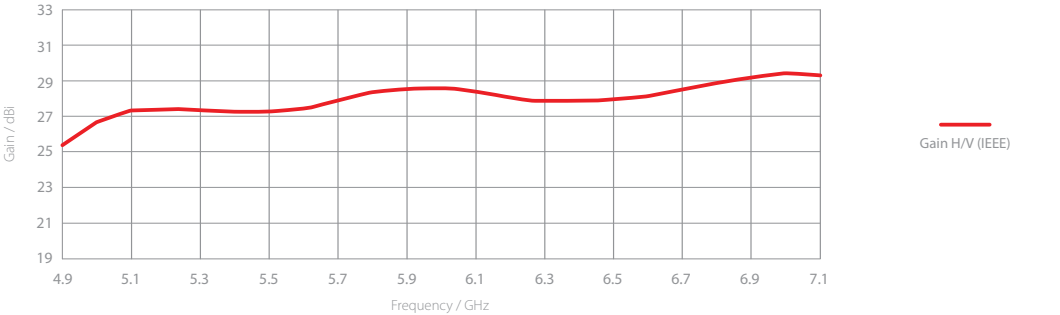
Frequency Range	4900-7100 MHz
Gain	27-29 dBi
Azimuth Beam Width -3 dB/-6dB	H 5.5°, V 5.5° / H 7.6°, V 7.6°
Elevation Beam Width -3 dB/-6dB	H 5.5°, V 5.5° / H 7.6°, V 7.6°
Beam Efficiency	59 %*
Front-to-Back Ratio	40 dB
VSWR	≤ 1.8 (4900 - 7100 MHz) ≤ 1.5 (5000 - 7000 MHz)
Polarization	Dual Linear H + V
Impedance	50 Ohm
ETSI	EN 302 217-4 class 1

* Beam efficiency defined up to first null

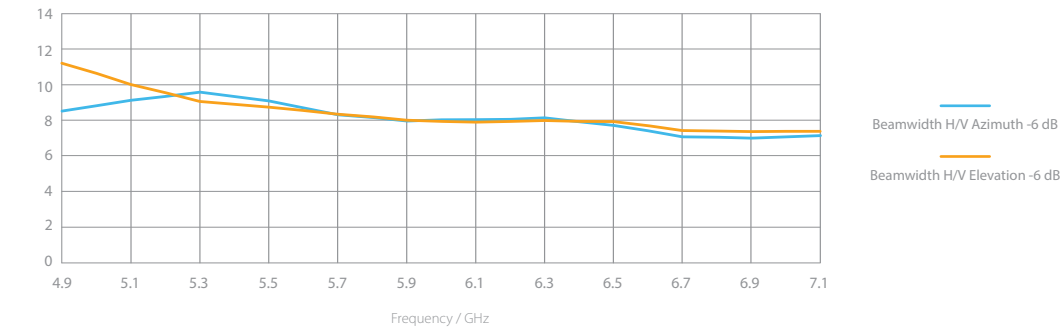
ANTENNA GAIN

Antenna Nominal Gain with Waveguide Port

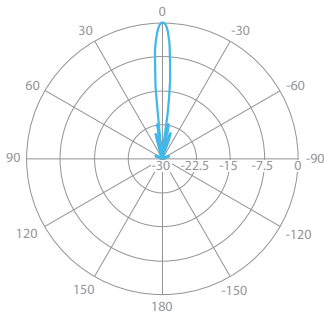
This graph demonstrates the maximum achievable gain of the antenna in boresight with an ideal waveguide port.



ANTENNA BEAMWIDTH

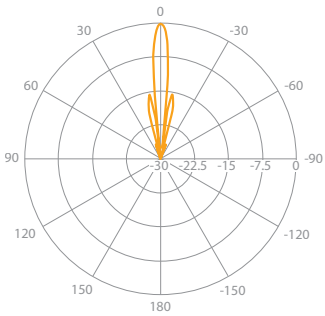


AZIMUTH PATTERN



H/V - Port Pattern Azimuth 5.6 GHz

ELEVATION PATTERN



H/V - Port Pattern Elevation 5.6 GHz