

# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna



## Introduction

This document is a guide and explanation of the difference in deployments of the AccelTex Solutions Warehouse and Half Warehouse antennas (ATS-OP-245-13-4\*\*\*\*-36 and ATS-OP-245-8-4\*\*\*\*-36).

### Terms:

- 13dBi Warehouse antenna = ATS-OP-245-13-4\*\*\*\*-36
- 8dBi Warehouse antenna = ATS-OP-245-8-4\*\*\*\*-36

# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna



## Antenna Specifications: ATS-OP-245-13-4\*\*\*\*-36



### ELECTRICAL SPECIFICATIONS

Frequency Range: 2.4-2.485/5.15-5.85 GHz

Gain: 13 dBi

Polarization: Horizontal

Horizontal Beamwidth: 15°

Vertical Beamwidth: 120°

VSWR:  $\leq 1.5:1$ , max 2.0

Isolation:  $>30$  dB

Impedance: 50  $\Omega$

Lightning Protection: None

Max Input Power: 50 W per port



### MECHANICAL SPECIFICATIONS

Dimensions: 13.77" L x 13.77" H x 1.37" D (350mm L x 350mm H x 50mm D)

Weight: 2.5 lb (1.13 kg)

Installation: Flush Mount to Wall or Articulating Wall Mount

Radome Material: ABS

Number of Leads: 4

Cable Length: 36" (910mm)

Cable Type: RG402 Plenum



### ENVIRONMENTAL SPECIFICATIONS

Installation Environment: Indoor/Outdoor

Operating Temperature: -40 to 158°F (-40 to 70°C)

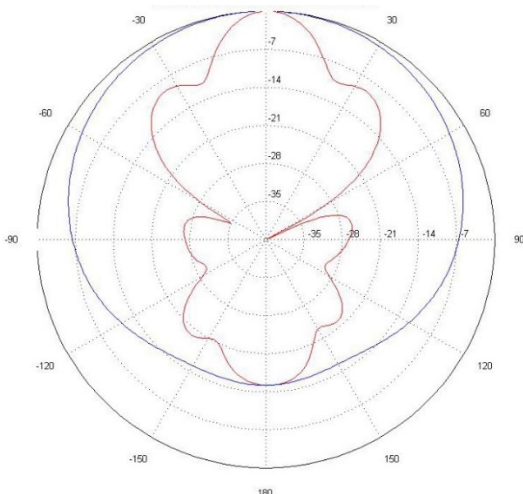
Wind Velocity: 134 mph (216 km/h)

### WARRANTY

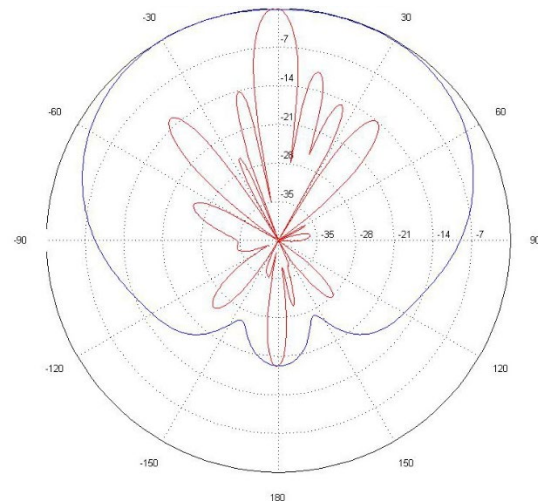
2 Year Limited Warranty



### 2.4 GHZ



### 5 GHZ



# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna



Antenna Specification: ATS-OP-245-8-4\*\*\*\*-36



## ELECTRICAL SPECIFICATIONS

Frequency Range: 2.4-2.5 / 5.1-5.85 GHz

Gain: 8 dBi

Polarization: 2 Vertical, 2 Horizontal

Horizontal Beamwidth: 125° / 114°

Vertical Beamwidth: 35° / 24°

VSWR: <1.5:1 Max: 2.0

Isolation: >20dB

Impedance: 50 Ω



## MECHANICAL SPECIFICATIONS

Dimensions: 12.6" x 6.7" x 1.4" (320mm x 170mm x 35mm)

Radome Material: ABS

Number of Leads: 4

Cable Length: 36" (910mm)

Cable Type: ATS-195



## ENVIRONMENTAL SPECIFICATIONS

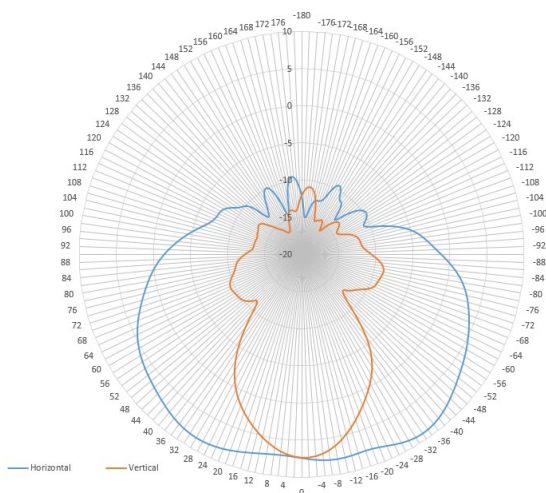
Installation Environment: Indoor/Outdoor

## WARRANTY

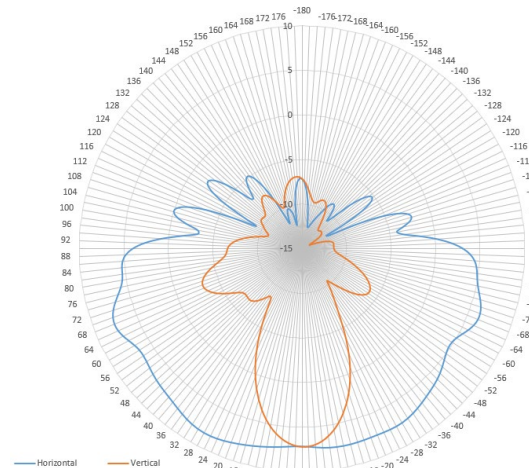
2 Year Limited Warranty



## 2.4GHZ



## 5GHZ



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# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna



## Deployment Specifications

When comparing the deployment of the 13dBi warehouse and 8dBi warehouse antennas, there are a few main points to pay attention to. Pay close attending to the beamwidths of the antennas and the blue arrows on the back of the antennas that denote the orientation of the planes.



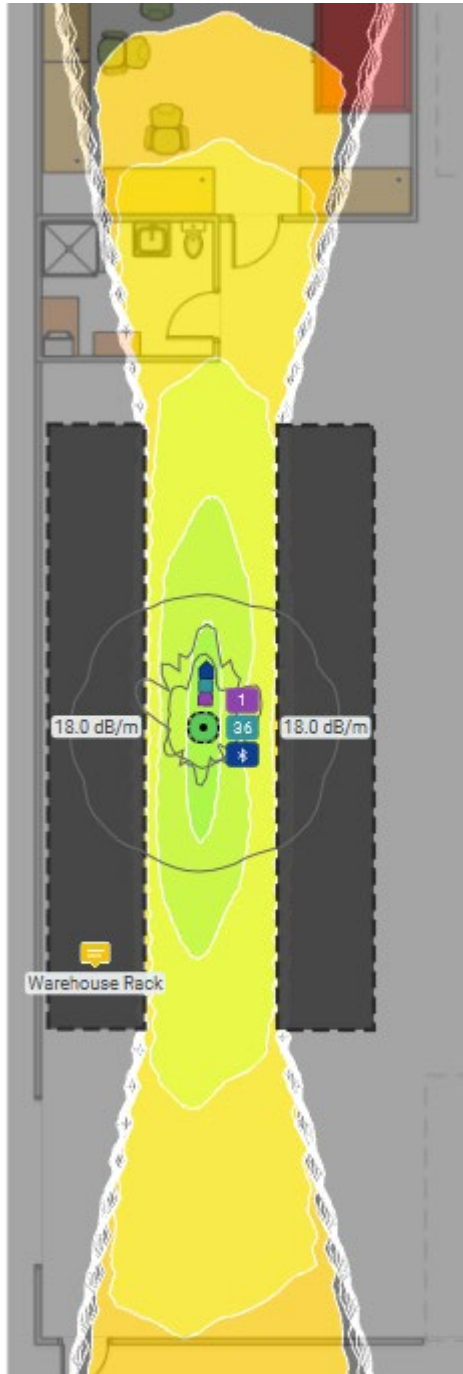
It can be noted that the wider beamwidth of the 13dBi warehouse antenna is on its vertical plane. Where on the 8dBi warehouse antenna, the wider beamwidth is on its horizontal plane. These are the respective planes you want to be aligned with the length of your warehouse aisle to attain full coverage.

# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna



## 13dBi Warehouse Deployment

When deploying the 13dBi warehouse antenna, you will need to mount the antenna to the ceiling with the vertical plane running parallel to the aisle you are covering. In this orientation, the 13dBi warehouse antenna will look like the axis of the side with the leads going to the side with the arrow is aligned with the aisle.

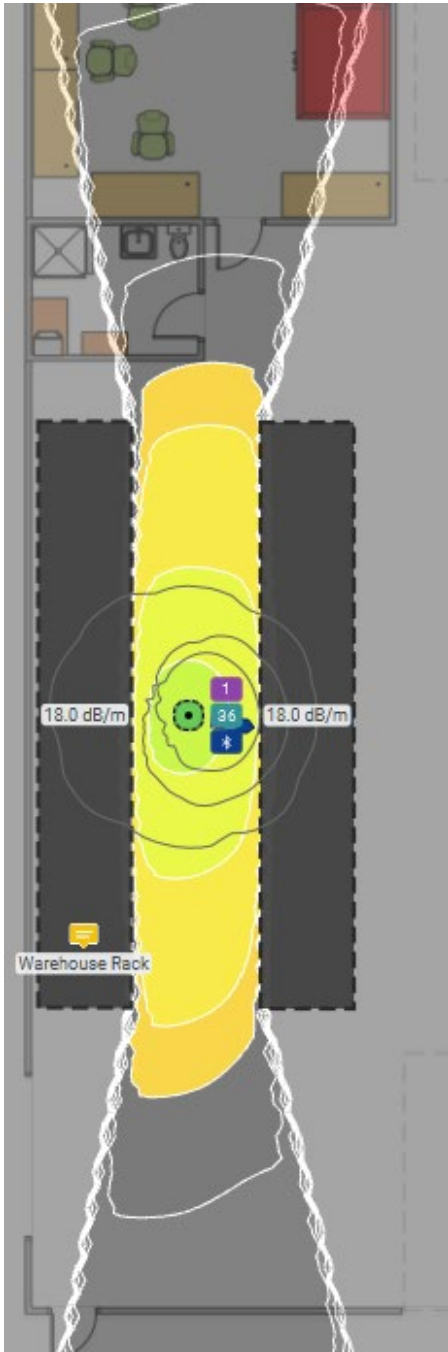


# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna



## 8dBi Warehouse Deployment

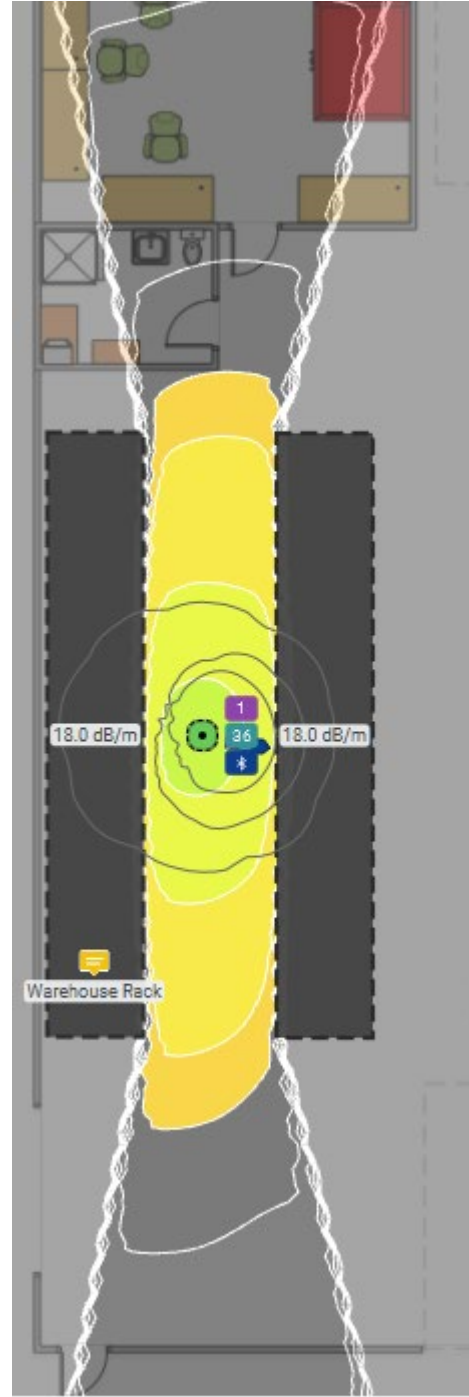
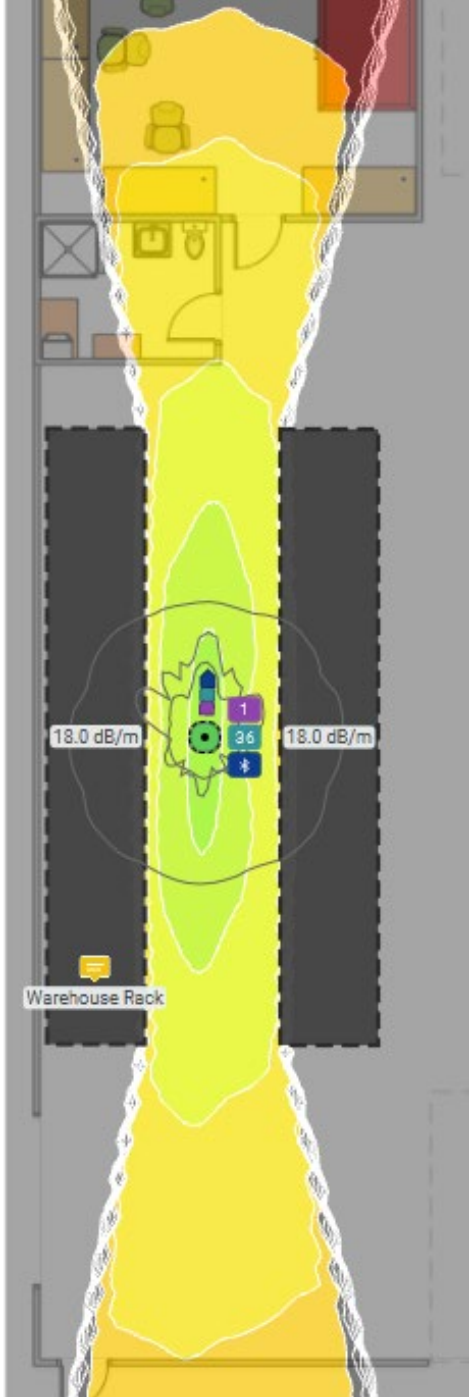
When deploying the 8dBi warehouse antenna, you will need to mount the antenna to the ceiling with the vertical plane running perpendicular to the aisle you are covering. In this orientation, the 8dBi warehouse antenna will look like the axis of the side with the leads going to the side with the arrow pointing at both racks in its aisle. Another way to see that orientation is that the long side of the antenna runs along the length of the aisle.





# 13 dBi Warehouse vs. 8 dBi Warehouse Antenna

## Deployment Comparison



After viewing this document, if you have any questions, please contact us at [info@acceltex.com](mailto:info@acceltex.com)