



## 5 GHz 18.5 dBi High Gain, Dual Polarized Directional Wi-Fi Antenna with 4 N Jack Connectors

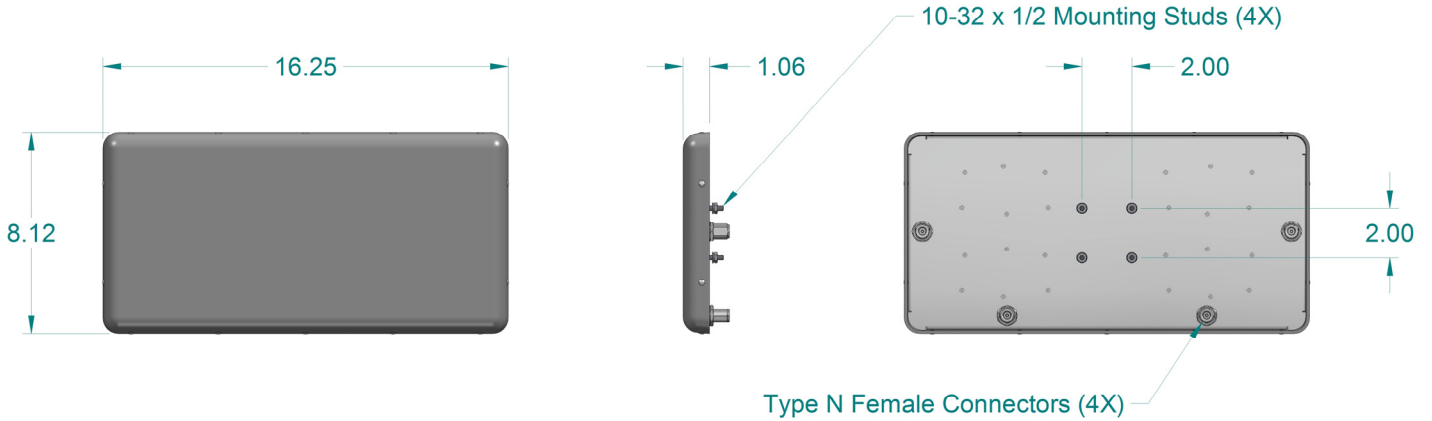
Ventev's TerraWave 5GHz 18.5 dBi High Gain, Dual Polarized Directional Wi-Fi Antenna with 4 N Jack Connectors can connect to any manufacturer's 802.11ac Waves I & II WLAN access points. The antenna provides the very high gain and very narrow beamwidths that are required to support ultra-high capacity wireless networks. Cross polarization ensures excellent performance in high scatter environment. The antenna's rear plate has 4 studs for a variety of antenna mounting options (sold separately). Optional Ventev mounts include: Industrial Articulating Mount (SKU 565992), 10" Strong Arm Mount (SKU 287936), or the 18" Strong Arm Mount (SKU 220743). *Every TerraWave antenna is RoHS compliant, and is covered by Ventev's two-year TerraNet warranty program. For more information, contact Ventev: 800-851-4965 or sales@ventev.com*



| Antenna Specifications    |  |    |     |
|---------------------------|--|----|-----|
| SKU                       | 242441   |    |     |
| Model Number              | T58185D0006  |    |     |
| Required Frequency Ranges | 5 GHz  |    |     |
| Average Gain              | 18.5 dBi   |    |     |
| Horizontal Beamwidth      | 16 degrees   |    |     |
| Vertical Beamwidth        | 16 degrees   |    |     |
| Impedance                 | 50 Ohms  |    |     |
| VSWR                      | 2:1  |    |     |
| Polarization              | 4 Ports, 2 Vertical, 2 Horizontal  |    |     |
| Front-to-Back Ratio       | 22 dB  |    |     |
| Operating Temperature (F) | -40  | to | 140 |
| Max Power Rating          | 50 Watts   |    |     |
| Connector Number & Type   | 4 N Jacks  |    |     |
| Mechanical Specifications |  |    |     |
| Dimensions (Inches)       | 16.25 x 8.12 x 1.06  |    |     |
| Weight (Pounds)           | 3  |    |     |
| Radome Material           | ABS  |    |     |
| Radome Color              | Gray   |    |     |
| Mount Method              | Four 10-32 x 1/2 Studs on 2.0" x 2.0" pattern on rear of antenna. Antenna mount sold separately. |    |     |
| Intrusion Prevention      | IP-54 compliant  |    |     |

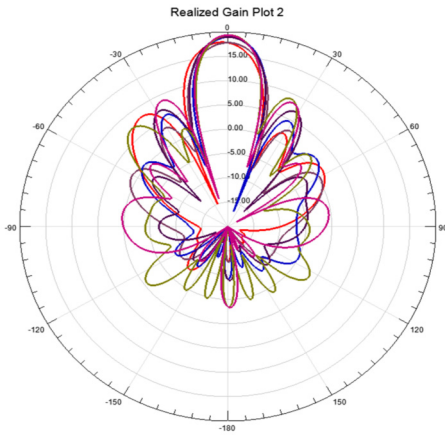
# 5 GHz 18.5 dBi High Gain, Dual Polarized Directional Wi-Fi Antenna with 4 N Jack Connectors

## Antenna Dimensions



## Radiation Patterns

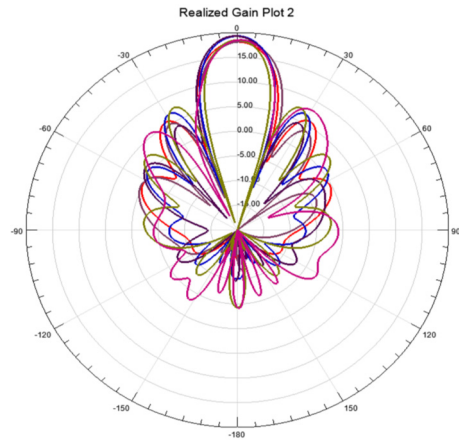
Port 1



HFSSDesign1 ▲

| Curve Info   | xdb10Beamwidth(3) | max     |
|--|-------------------|---------|
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=4.9GHz' Phi=0deg'  | 18.7739           | 17.9160 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=4.9GHz' Phi=90deg' | 18.8867           | 17.7945 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.4GHz' Phi=0deg'  | 16.5614           | 18.9725 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.4GHz' Phi=90deg' | 17.2320           | 18.9688 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.9GHz' Phi=0deg'  | 14.6191           | 19.3465 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.9GHz' Phi=90deg' | 15.2317           | 19.3465 |

Port 2



HFSSDesign1 ▲

| Curve Info   | xdb10Beamwidth(3) | max     |
|--|-------------------|---------|
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=4.9GHz' Phi=0deg'  | 18.8054           | 18.1466 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=4.9GHz' Phi=90deg' | 18.9698           | 18.1918 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.4GHz' Phi=0deg'  | 16.8721           | 19.2932 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.4GHz' Phi=90deg' | 17.2154           | 19.3031 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.9GHz' Phi=0deg'  | 15.2169           | 18.4763 |
| dB(RealizedGainTotal)<br>Setup1: Sweep1<br>Freq=5.9GHz' Phi=90deg' | 16.1651           | 18.5278 |