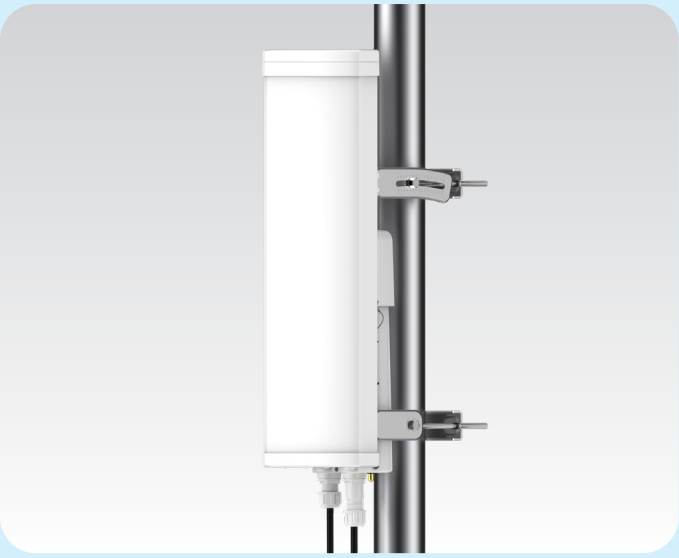
# ePMP™ 6 GHz 4x4 Sector Antenna

## QUICK LOOK:

- **High-performance sector antennas designed by Cambium Networks to maximize ePMP point-to-multipoint performance.**
- **Frequency Range 5.9 to 7.125 GHz**



Cambium Networks has deployed millions of radios around the world achieving unparalleled degrees of scalability and performance. A key aspect to a successful point-to-multipoint deployments is the antenna selection that is optimized to maximize the overall system gain, spectral efficiency and interference rejection. Cambium Networks has designed a 6 GHz 4x4 MU-MIMO sector antennas especially well-suited for ePMP 4600 Access Points.

The 4x4 MU-MIMO sector providing 18 dBi gain, 30 dB front-toback ratio and the ability to form the beams necessary for grouping SM's for MU-MIMO performance. By forming these MU-MIMO groups, the RADIO effectively has two overlapping sectors enabling transmission to two SM's simultaneously. This antenna is ideal for 4-sector deployments and ABAB 2-channel reuse.

*Use LINKPlanner to determine capacity and availability of Point-to-Multipoint networks*

### Key Advantages of Cambium Networks-designed ePMP Sector Antennas:

**Frequency Reuse**

Designed for ABAB channel reuse (two channels cover four sectors).

**Consistent coverage**

Excellent null fill and smooth azimuth patterns allow for broad geographical cover, including near the tower and out to the sector edges.

**Ultra Wide Frequency Range**

Designed for 6 GHz deployment worldwide covering 5.9 GHz to 7.125 GHz.

**Designed for the Installer**

Small, compact designs with integrated radio mounting for reliable and safe installations.

**LINKPlanner Support**

Cambium Networks planning tool offers precise 3D modeling of each sectors, elevation and azimuth, enabling predictable capacity and availability of each subscriber location.

# ePMP™ 6 GHz 4x4 Sector Antenna

## Antenna Specifications

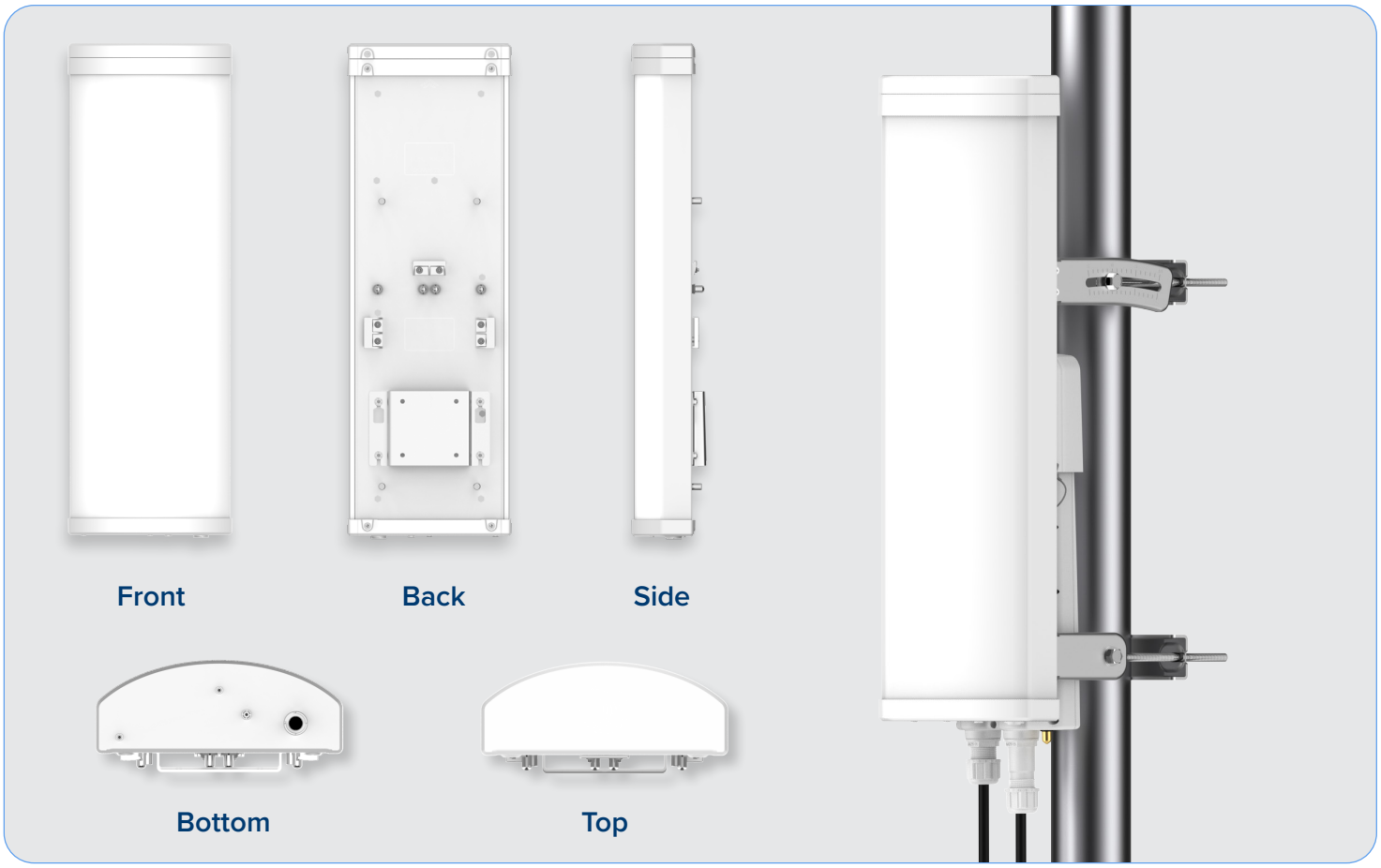
| | |
|---|---|
| **Frequency Range** | 5.9 GHz to 7.125 GHz |
| **Gain** | 18 dBi |
| **3 dB Beamwidth Azimuth** | 65° |
| **3 dB Beamwidth Elevation** | 5° |
| **6 dB Beamwidth Azimuth** | 90° |
| **Electrical Downtilt** | -2° |
| **Polarization** | 2 x Horizontal, 2 x Vertical |
| **Port-to-Port Isolation** | > 20 dB |
| **Front-to-Back Ratio** | 30 dB |
| **Maximum Input Power** | 5 W |
| **Imput Impedance** | 50 ohms |
| **Mounting Connectors** | 4 x RP SMA |

## Antenna Specifications

| | |
|---|---|
| **Mounting Hardware** | Included for mounting to mast diameters 5 cm to 10 cm (2 in to 4 in)<br>-10° to +5° tilt<br>Hardware included to connect ePMP access point to back of antenna body |
| **Dimensions H x W x D** | 667 x 288 x 183 mm (26.3 x 11.3 x 7.2 in) |
| **Weight** | **Antenna Body:** 3.5 kg (7.7 lbs)<br>**w/ ePMP 4600 Access Point and Mounting Brackets:** 5.6 kg (12.3 lbs) |
| **Environmental** | IP65 |
| **Radome Material** | UV Protected Polycarbonate |
| **Operating Temperature** | -40°C to 60°C (-40°F to 140°F) |
| **Wind Surivability** | 200 kph (124 mph) |

## Ordering Information

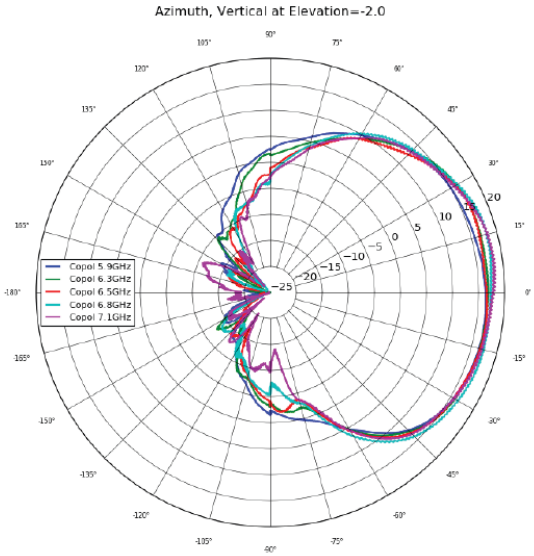
| | |
|---|---|
| **C060940D301A** | ePMP 6 GHz 4x4 MU-MIMO Sector Antenna with Mounting Kit |



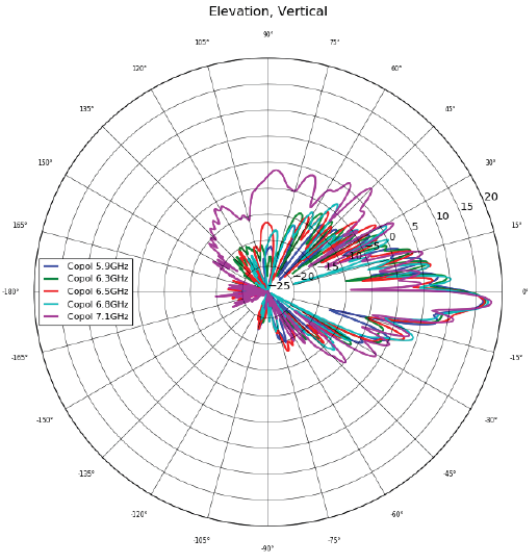
# ePMP™ 6 GHz 4x4 Sector Antenna

## ePMP 6 GHz 4x4 Sector Antenna Patterns

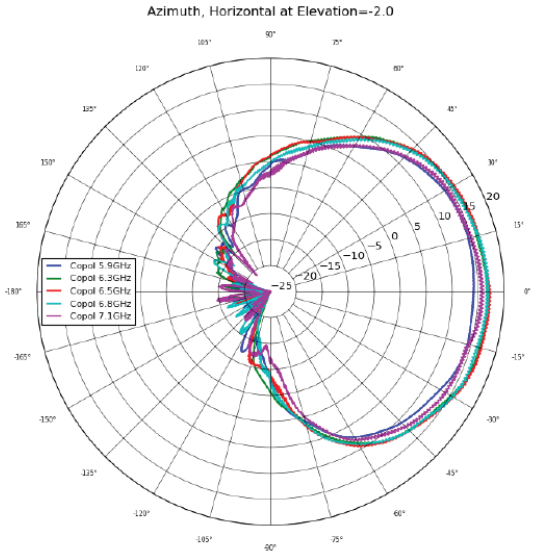
### Channel 0 Vertical Polarization Azimuth



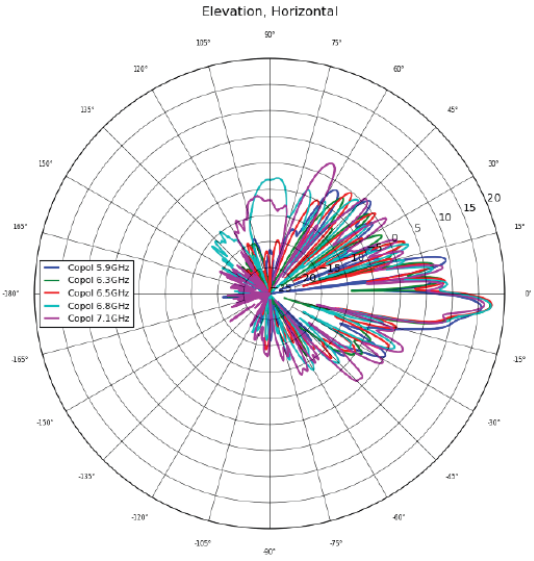

### Channel 0 Vertical Polarization Elevation




### Channel 1 Vertical Polarization Azimuth



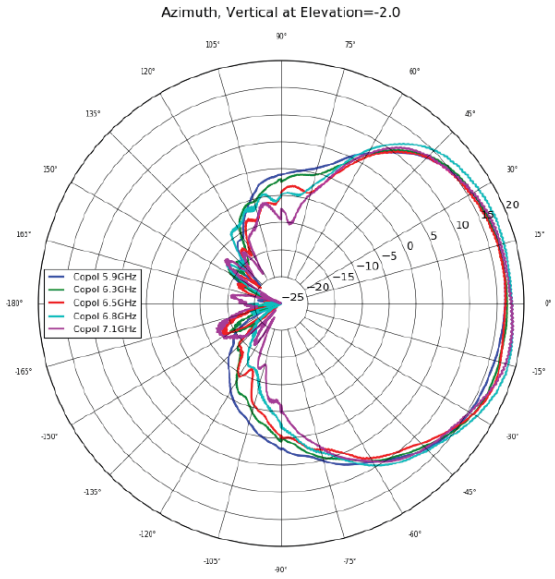

### Channel 1 Vertical Polarization Elevation



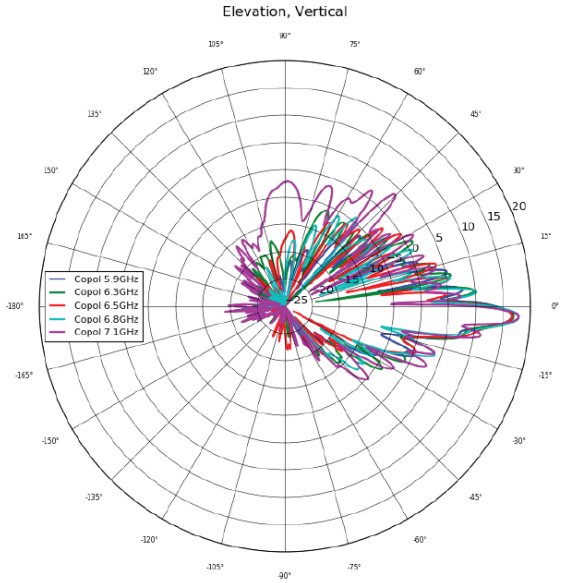
# ePMP™ 6 GHz 4x4 Sector Antenna

## ePMP 6 GHz 4x4 Sector Antenna Patterns

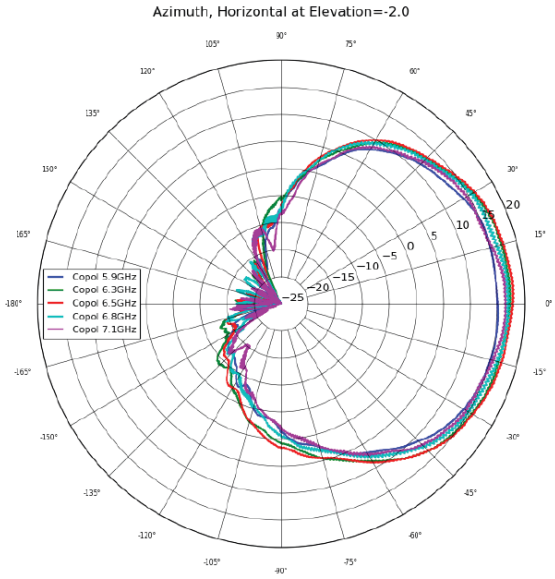
### Channel 2 Vertical Polarization Azimuth



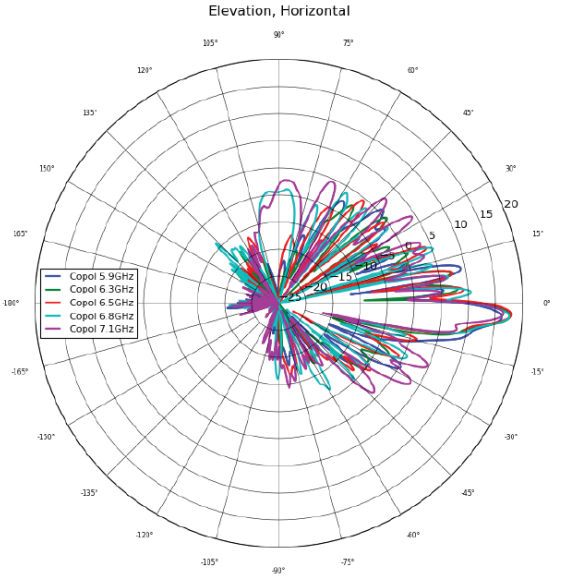

### Channel 2 Vertical Polarization Elevation




### Channel 3 Vertical Polarization Azimuth




### Channel 3 Vertical Polarization Elevation




### ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

**cambiumnetworks.com**

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