



**airPRISM®**

5 GHz, 3x30° HD Sector Antenna

Model: AP-5AC-90-HD

Powerful Performance for High-Density Areas

3 x 30° Beamwidth Coverage in a MultiPoint Network

Efficient Footprint for Reduced Tower Costs

# Overview

Ubiquiti Networks introduces an innovative sector antenna for your Point-to-MultiPoint (PtMP) applications, the airPrism<sup>®</sup> 5 GHz 3x30° HD Sector Antenna.

The airPrism antenna features significant advances in noise isolation and beam performance to complement the Rocket<sup>®</sup>5ac Prism<sup>™</sup> radios (not included) for co-location deployments.

## Breakthrough Design

Three Rocket5ac Prism radios mounted on a single airPrism antenna maximizes throughput in an efficient tower footprint, minimizing installation and tower costs.

## Powerful Performance

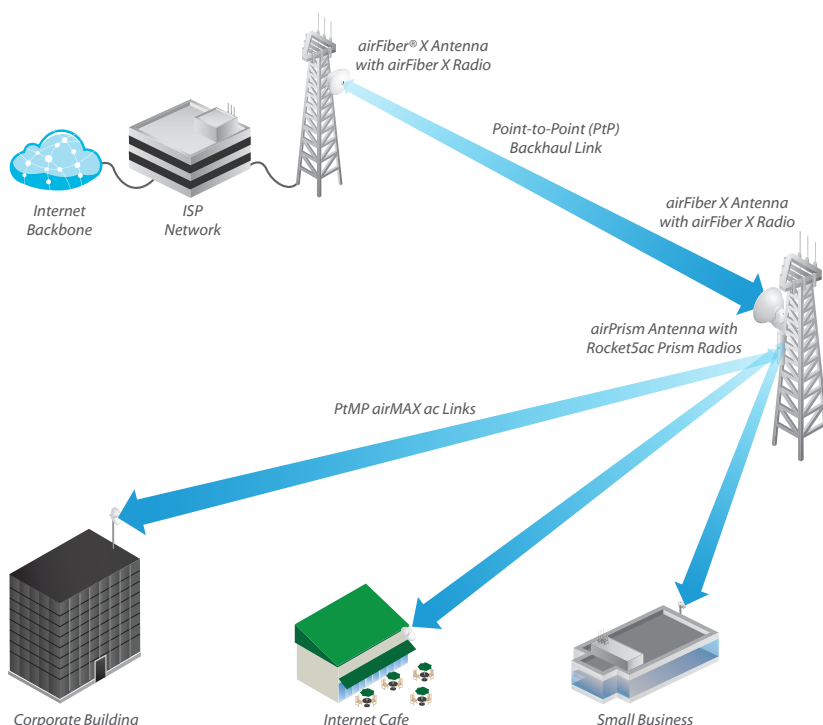
Highly resistant to noise interference, the airPrism antenna provides superior beam performance in high-density areas for high-capacity, multipoint networks.

## Plug and Play Integration

The airPrism antenna and Rocket5ac Prism radios have been designed to seamlessly work together. Every airPrism antenna has three built-in Rocket radio mounts, so installation requires no special tools.

Snap the three Rocket5ac Prism radios securely into place and mount the antenna for your PtMP link.

## Application Example



## Beamwidth

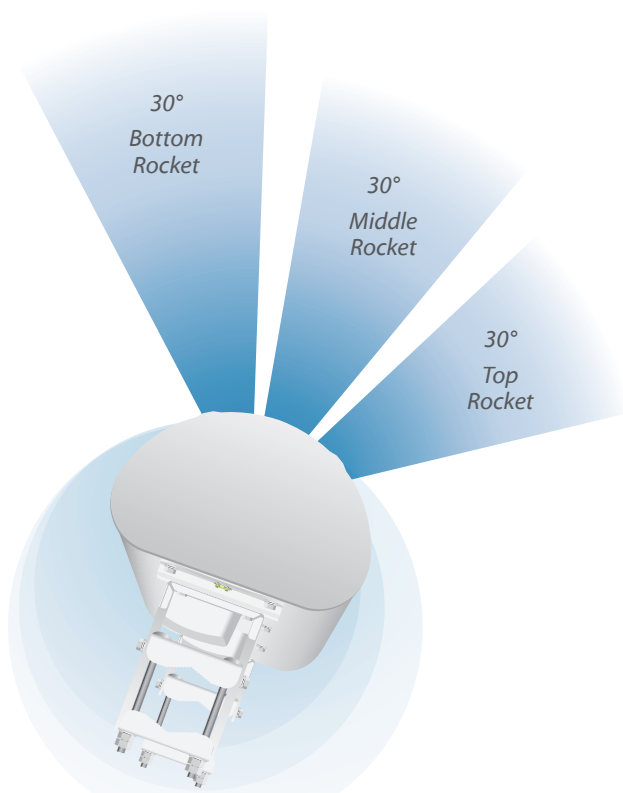
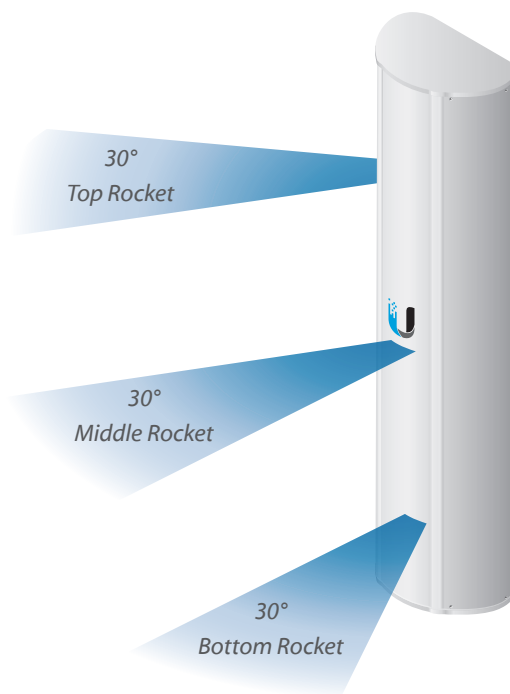
The three Rocket5ac Prism radios are installed at the top, middle, and bottom of the airPrism antenna. Each radio independently transmits and receives within its corresponding 30° beamwidth.

Refer to the diagrams below for a visual representation of the beamwidth coverage.

## Channel Offset

The size of the required offset depends on the channel width.

| Channel Width | Separation |
|---------------|------------|
| 10 MHz        | 20 MHz     |
| 20 MHz        | 30 MHz     |
| 30 MHz        | 50 MHz     |
| 40 MHz        | 60 MHz     |



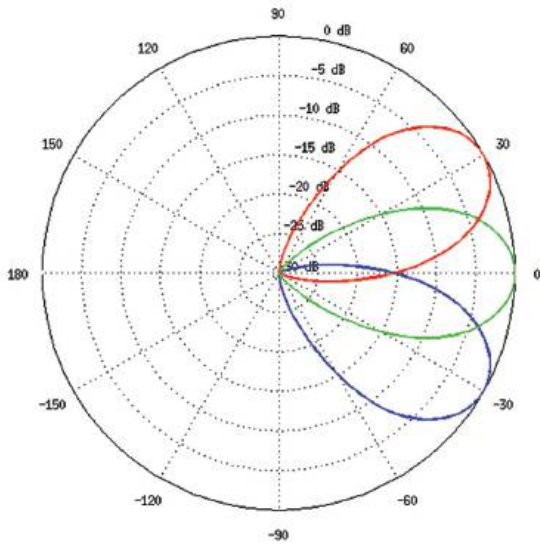
# AP-5AC-90-HD Specifications

| Antenna Characteristics      |                                                                               |
|------------------------------|-------------------------------------------------------------------------------|
| Dimensions*                  | 322.6 x 201.5 x 1300 mm<br>(12.7 x 7.93 x 51.18")                             |
| Weight**                     | 13.1 kg<br>(28.9 lb)                                                          |
| Frequency Range              | 5.15 - 5.85 GHz                                                               |
| Gain                         | 22 dBi                                                                        |
| HPOL Beamwidth               | 3 x 30° (6 dB)                                                                |
| VPOL Beamwidth               | 3 x 30° (6 dB)                                                                |
| Electrical Beamwidth         | 8°                                                                            |
| Electrical Downtilt          | 2°                                                                            |
| Max. VSWR                    | 1.75:1                                                                        |
| Polarization                 | Dual-Linear                                                                   |
| Cross-Polarization Isolation | 30 dB Min.                                                                    |
| Interfaces                   | (6) RP-SMA Connectors (Weatherproof)                                          |
| Compatible Radio             | Rocket5ac Prism, model R5AC-PRISM                                             |
| Wind Loading                 | 534 N @ 200 km/h (120 lbf @ 125 mph)                                          |
| Wind Survivability           | 200 km/h (125 mph)                                                            |
| Mounting                     | Universal Pole Mount, Rocket Bracket, and Weatherproof RF Connectors Included |
| ETSI Specification           | EN 302 326 DN2                                                                |
| Certifications               | CE, FCC, IC                                                                   |

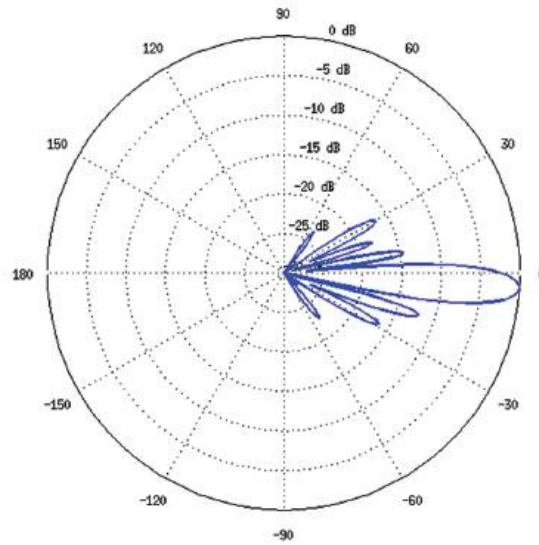
\* Dimensions exclude pole mount and Rocket5ac Prism (Rocket5ac Prism sold separately)

\*\* Weight includes pole mount and excludes Rocket5ac Prism (Rocket5ac Prism sold separately)

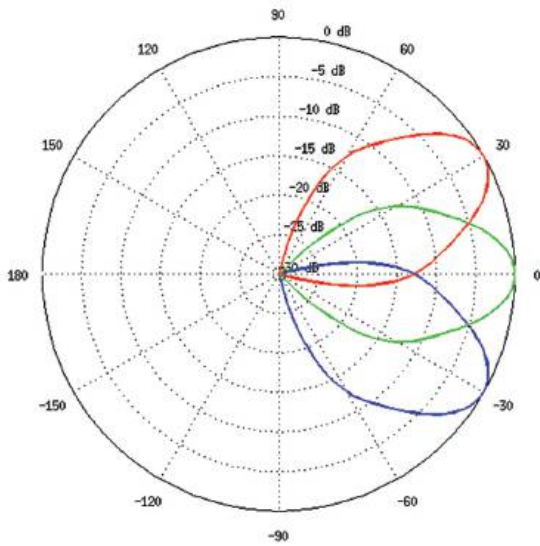
Vertical Azimuth



Vertical Elevation



Horizontal Azimuth



Horizontal Elevation

