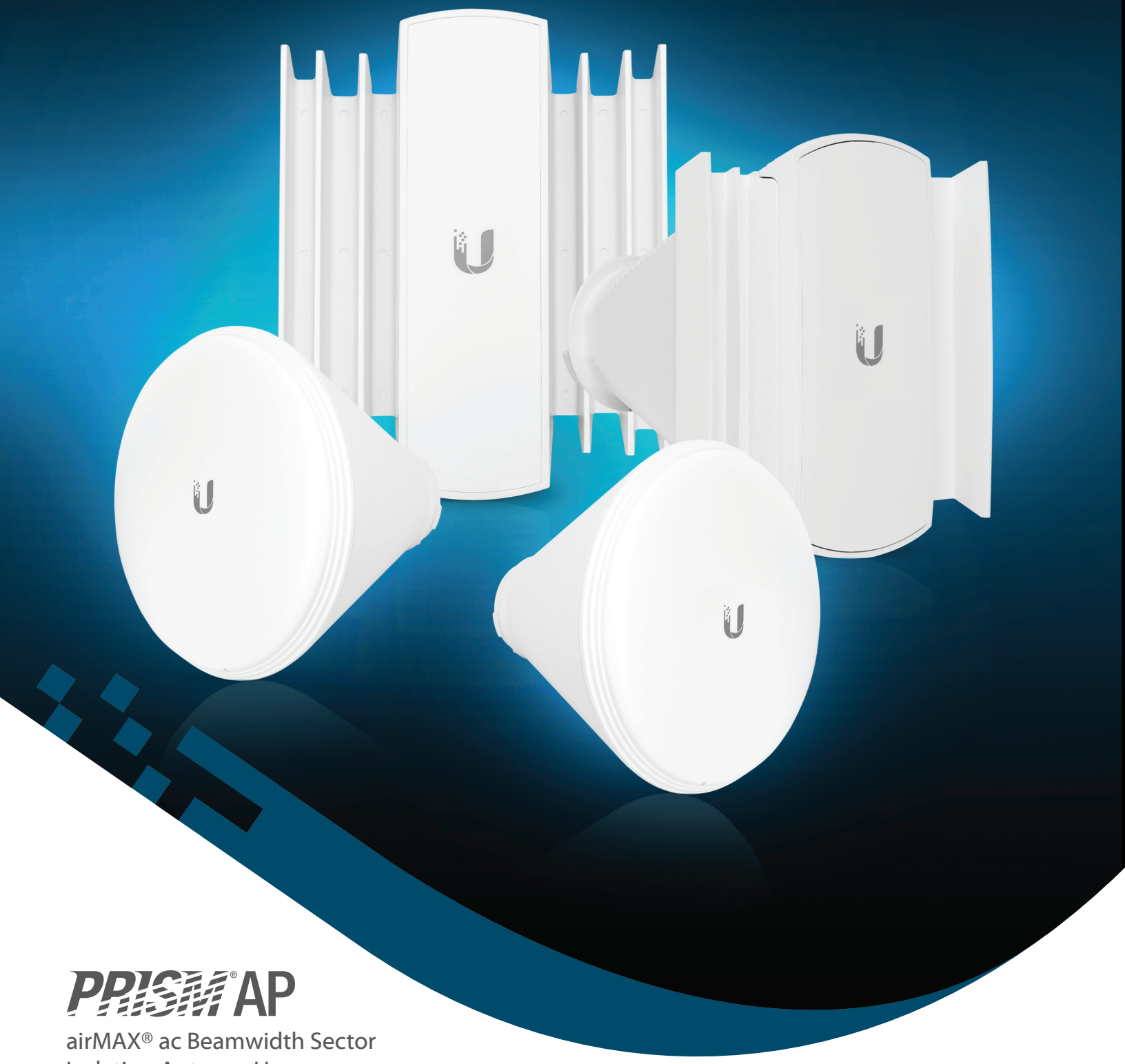
DATASHEET



PRISM AP

airMAX® ac Beamwidth Sector Isolation Antenna Horn

Models: PrismAP-5-30, PrismAP-5-45, PrismAP-5-60, and PrismAP-5-90

Isolation Antenna Horns for PrismStation and IsoStation

Designed for Increased Co-Location Performance

Dual-Linear Polarization

UBIQUITI NETWORKS

Overview

Ubiquiti Networks launches a new generation of airMAX ac beamwidth isolation antennas, the PrismAP.

Modular Design

With flexible sectorization for optional antenna beamwidths, the PrismAP antennas are interchangeable and improve beam-shaping for specific deployment and environment needs. The PrismStation 5AC and IsoStations use horn antenna sectors designed for increased co-location performance without sacrificing gain.

Scalability

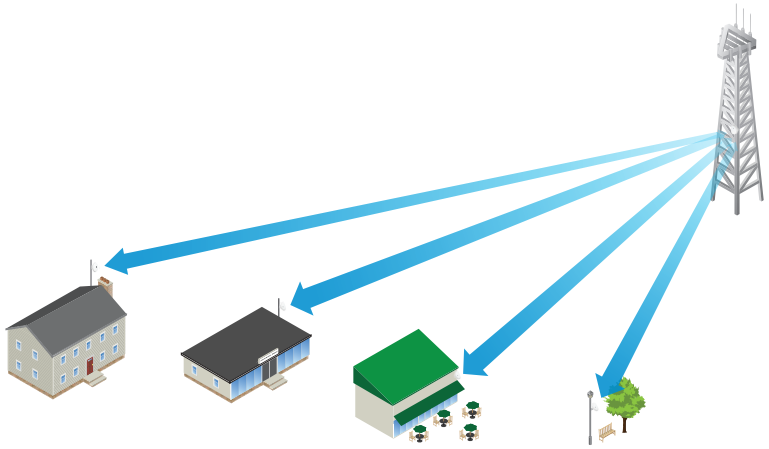
Symmetrical horn antennas (30˚ and 45˚ versions, models PrismAP-5-30 and PrismAP-5-45, respectively) offer breakthrough scalability options for wireless systems. Unique beam performance and great co-location characteristics allow for a higher density of sectors than traditional sector technology.

Enhanced Co-Location

Asymmetrical horn antennas (60˚ and 90˚ versions, models PrismAP-5-60 and PrismAP-5-90, respectively) have naturally attenuated side lobes and extremely low back radiation. They offer best front-to-back ratio in the industry and the lowest side lobe radiation. Asymmetrical horn antennas are ideal for cluster sector installations with high co-location requirements.

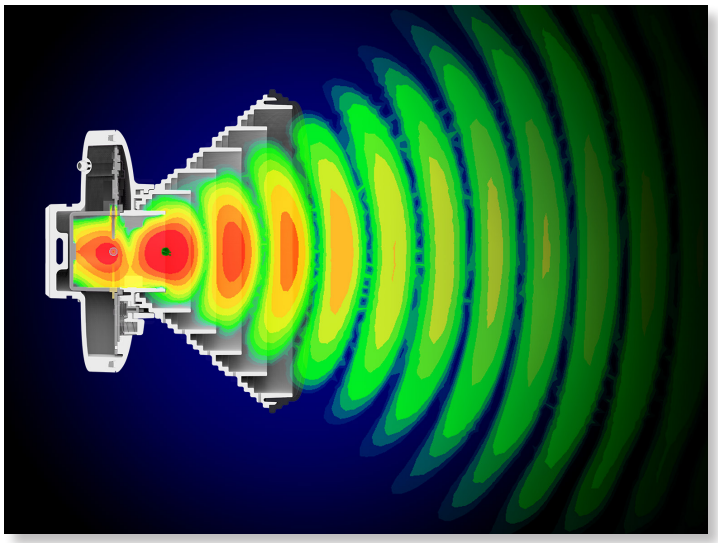
Application Example

PtMP Client Links



The PrismStation 5AC (with a PrismAP antenna) is used as an AP to communicate with the IsoStation 5AC for each client in an airMAX PtMP network.

Beam Performance Perfected

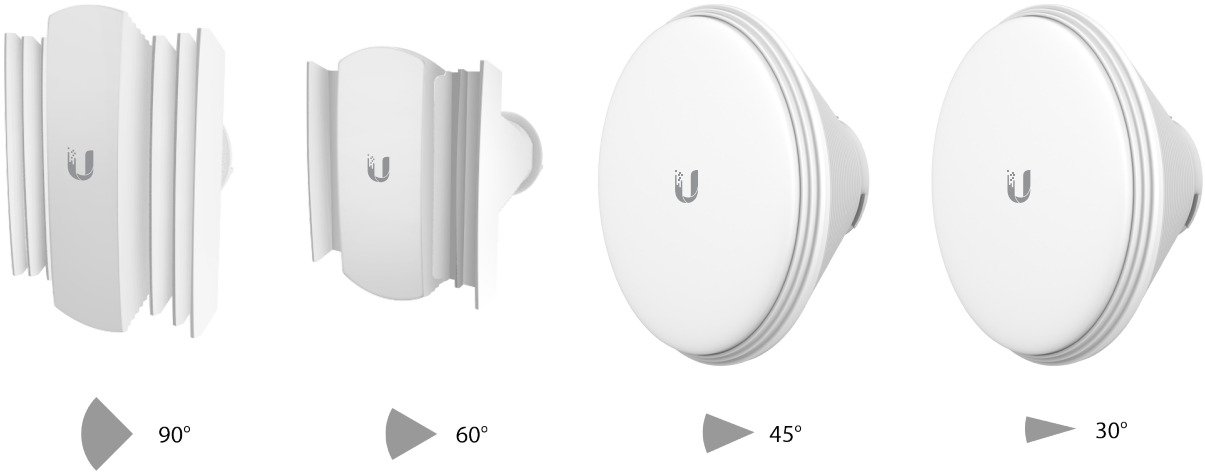


Modular Design

Interchangeable Antennas

The PrismAP antennas come with precise radiation angles for specific beam shaping, ranging from 30° to 90°, making them suitable for a wider range of installations.

- Designed for increased co-location performance
- Available in 30˚, 45˚, 60˚, and 90˚ designs
- Designed for use with PS-5AC, IS-5AC, and IS-M5
- Single button release for ease of changing antennas
- Newly designed horn for improved beam shaping



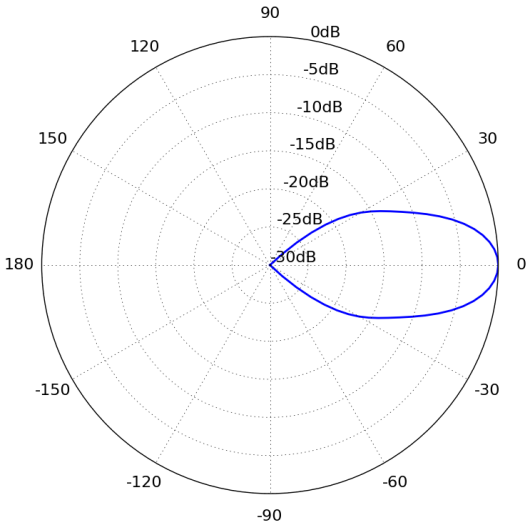
PrismAP-5-90 *PrismAP-5-60* *PrismAP-5-45* *PrismAP-5-30*

PS-5AC with PrismAP-5-45 Mounted on Pole

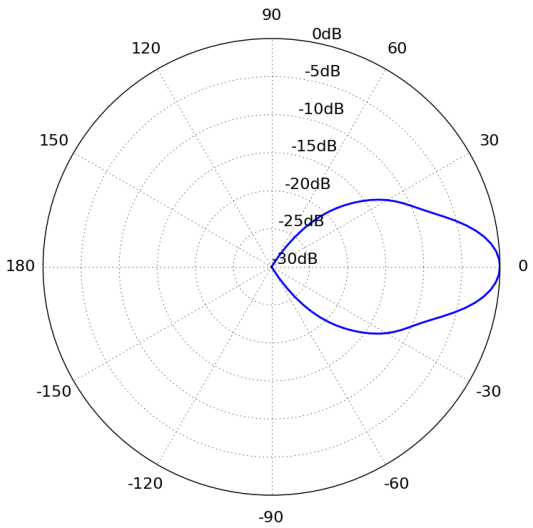
Specifications

PrismAP-5-30	
Dimensions	Ø 221.4 x 184.2 mm (8.71 x 7.3")
Weight	1.1 kg (38.8 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	19 dBi
HPOL Beamwidth	30°
VPOL Beamwidth	30°
Elevation Beamwidth	30°
Maximum VSWR	1.7:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	56 N @ 200 km/h (12.6 lbf @ 125 mph)
Polarization	Dual-Linear
Cross-Pol Isolation	17 dB

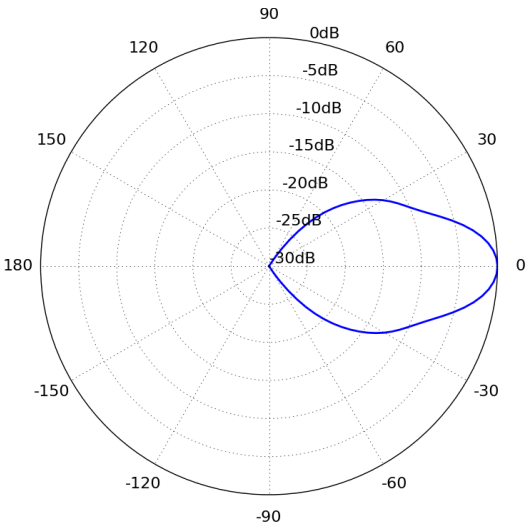
Vertical Azimuth



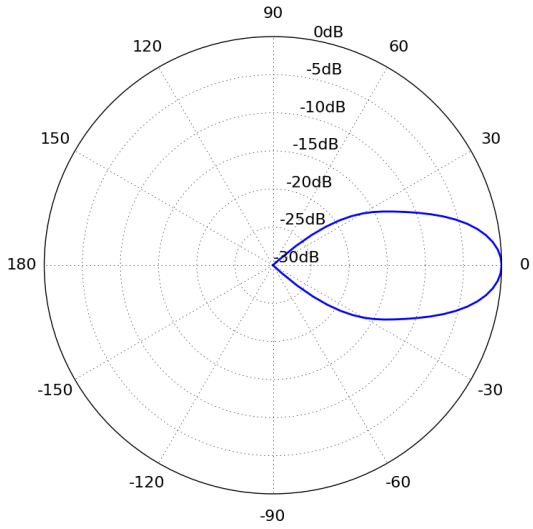
Vertical Elevation



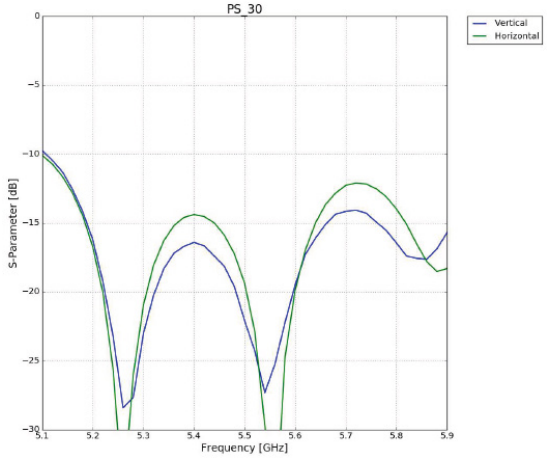
Horizontal Azimuth



Horizontal Elevation



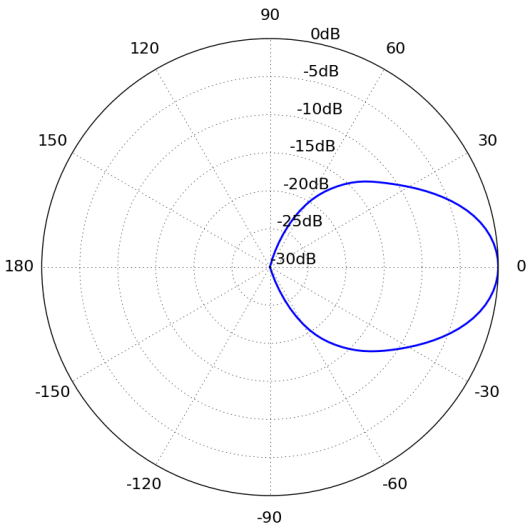
Return Loss



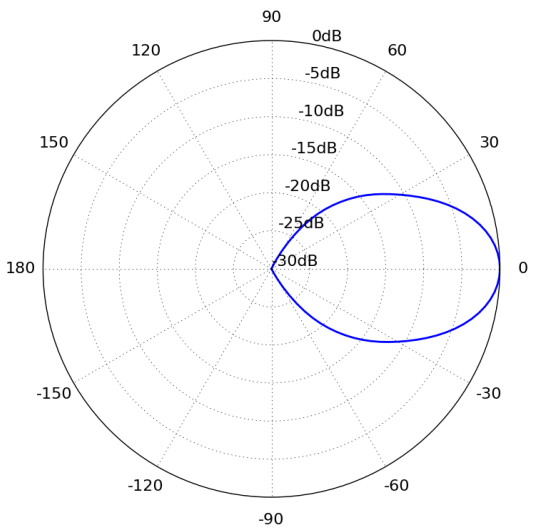
Specifications

PrismAP-5-45	
Dimensions	Ø 175 x 184 mm (6.9 x 7.2")
Weight	1.34 kg (47.23 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	15.5 dBi
HPOL Beamwidth	45°
VPOL Beamwidth	45°
Elevation Beamwidth	45°
Maximum VSWR	1.7:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	56 N @ 200 km/h (12.6 lbf @ 125 mph)
Polarization	Dual-Linear
Cross-Pol Isolation	17 dB

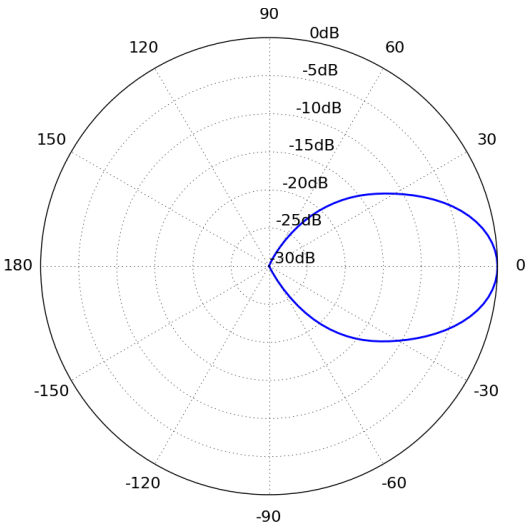
Vertical Azimuth



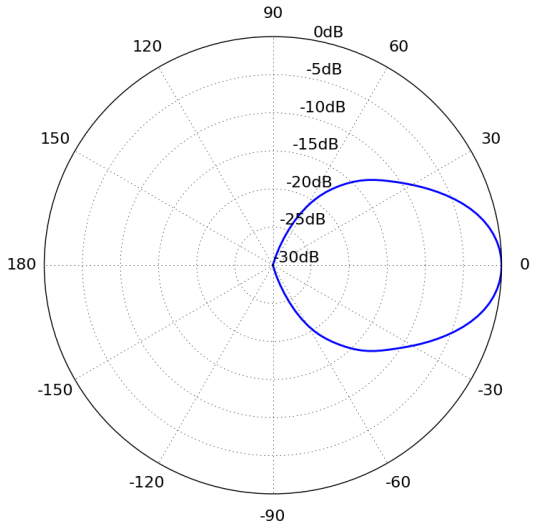
Vertical Elevation



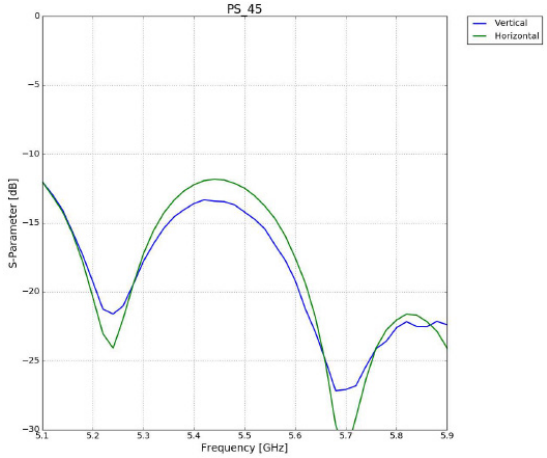
Horizontal Azimuth



Horizontal Elevation



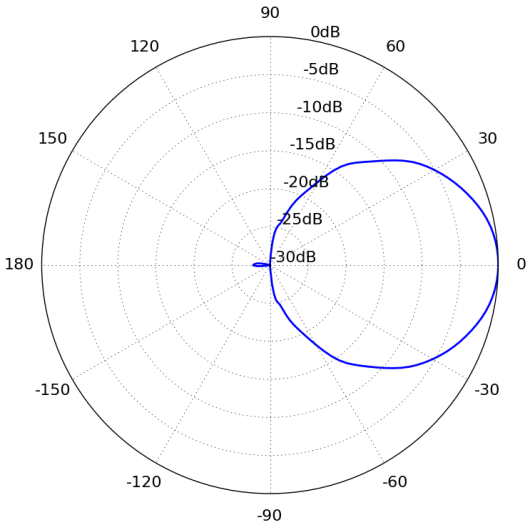
Return Loss



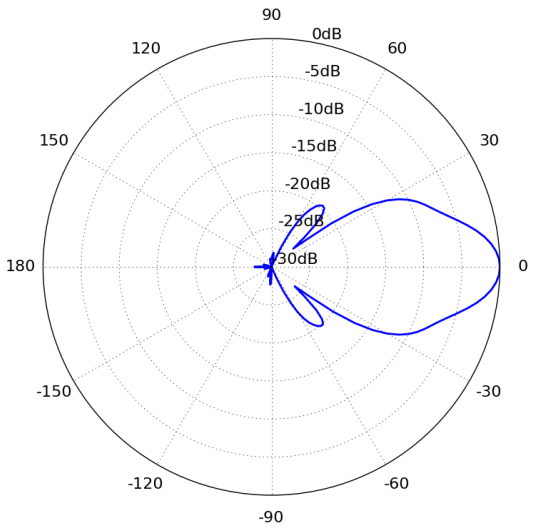
Specifications

PrismAP-5-60	
Dimensions	161.6 x 173.3 x 170.9 mm (6.4 x 6.82 x 6.73")
Weight	720g (25.39 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	16 dBi
HPOL Beamwidth	60°
VPOL Beamwidth	60°
Elevation Beamwidth	30°
Maximum VSWR	2:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	50 N @ 200 km/h (11.2 lbf @ 125 mph)
Polarization	Dual-Linear
Cross-Pol Isolation	17 dB

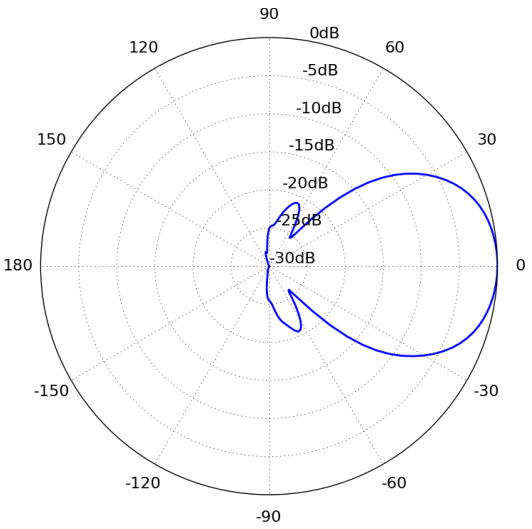
Vertical Azimuth



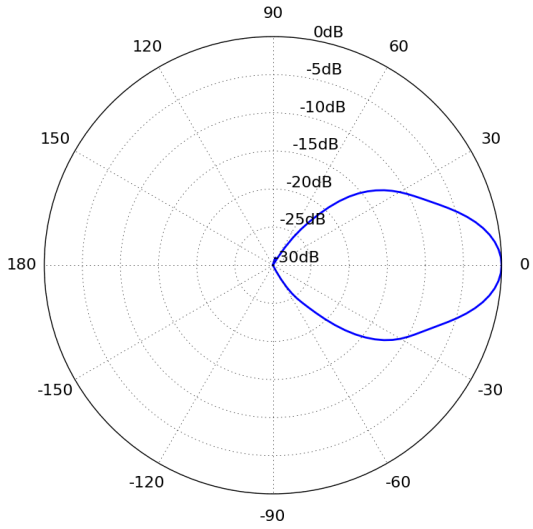
Vertical Elevation



Horizontal Azimuth



Horizontal Elevation



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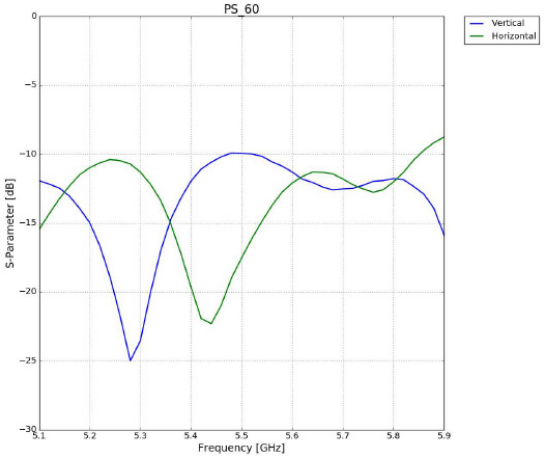
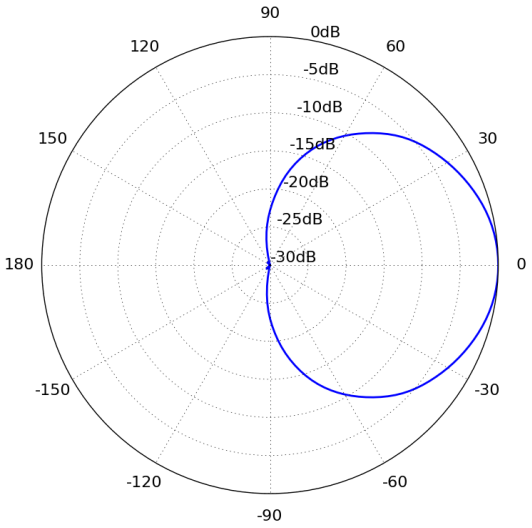


Specifications

PrismAP-5-90	
Dimensions	152.1 x 186.8 x 113.2 mm (5.99 x 7.35 x 4.46")
Weight	920 g (32.45 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	13 dBi
HPOL Beamwidth	90°
VPOL Beamwidth	90°
Elevation Beamwidth	45°
Maximum VSWR	2:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	46 N @ 200 km/h (10.3 lbf @ 125 mph)
Polarization	Dual-Linear
Cross-Pol Isolation	17 dB

Vertical Azimuth



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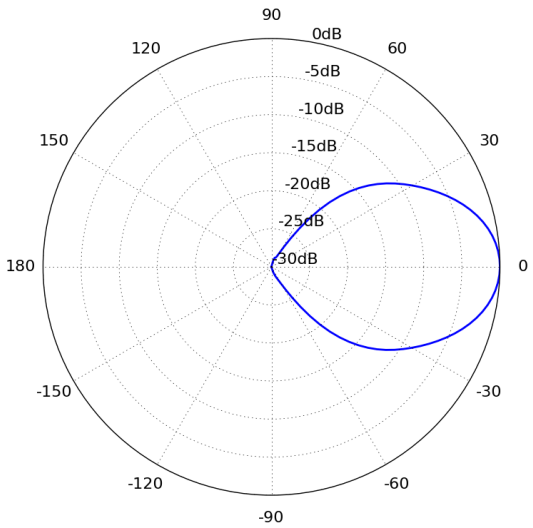
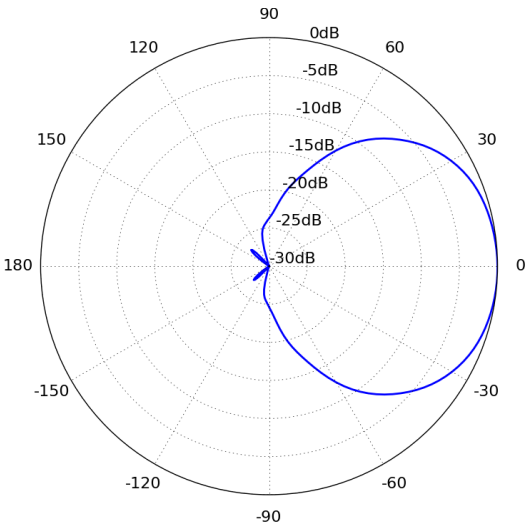


Horizontal Azimuth



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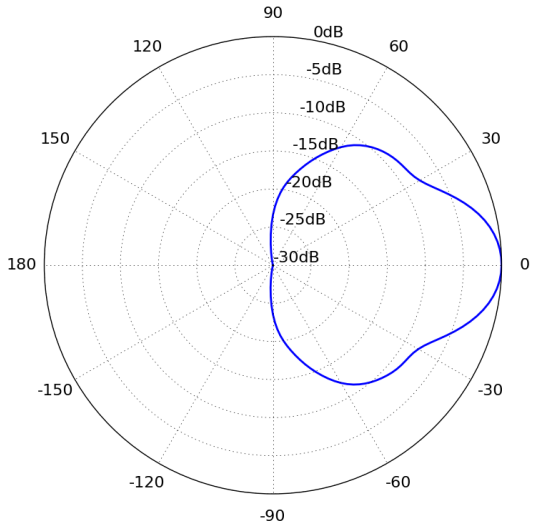

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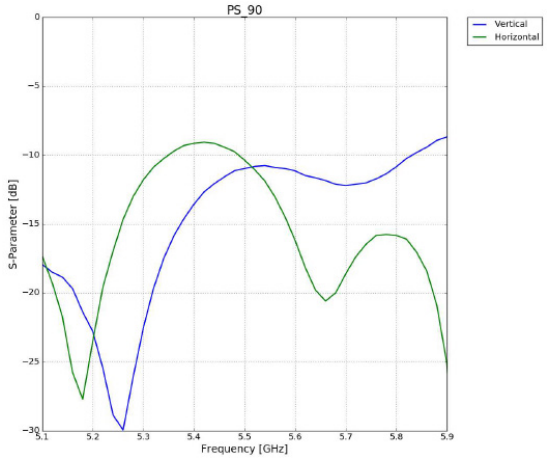

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