



## **PRISM<sup>®</sup> AP**

airMAX<sup>®</sup> 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

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Designed for Increased Co-Location Performance

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Dual-Linear Polarization

# 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

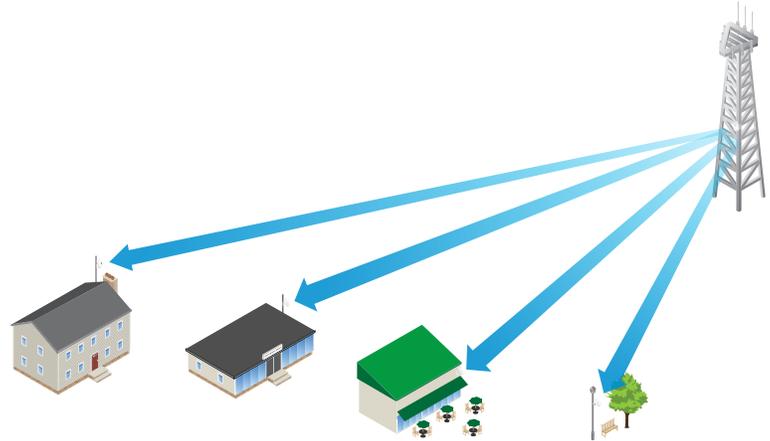
Symmetrical horn antennas (30° and 45° versions, models PrismAP-5-30 and PrismAP-5-45, respectively) offer breakthrough scalability options for wireless systems. Unique beam performance and great co-location characteristics allow for a higher density of sectors than traditional sector technology.

## 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.

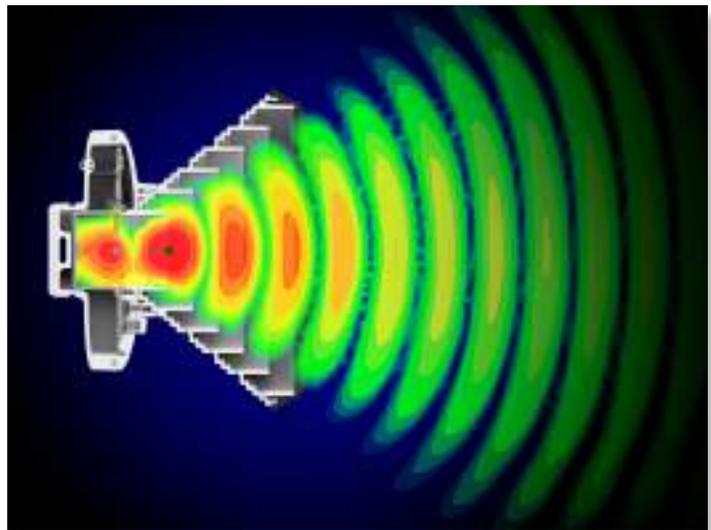
## Application Example

### 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*



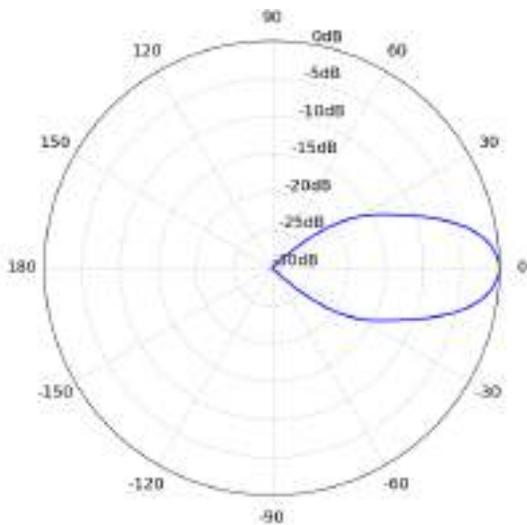
*PS-5AC with PrismAP-5-45 Mounted on Pole*

# Specifications

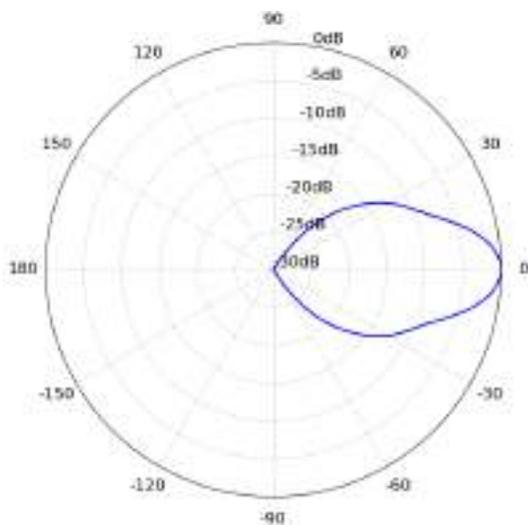
PrismAP-5-30	
Dimensions	Ø 221.4 x 184.2 mm (8.71 x 7.3")
Weight	1.1 kg (38.8 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	19 dBi
HPOL Beamwidth	30°
VPOL Beamwidth	30°
Elevation Beamwidth	30°
Maximum VSWR	1.7:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	56 N @ 200 km/h (12.6 lbf @ 125 mph)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



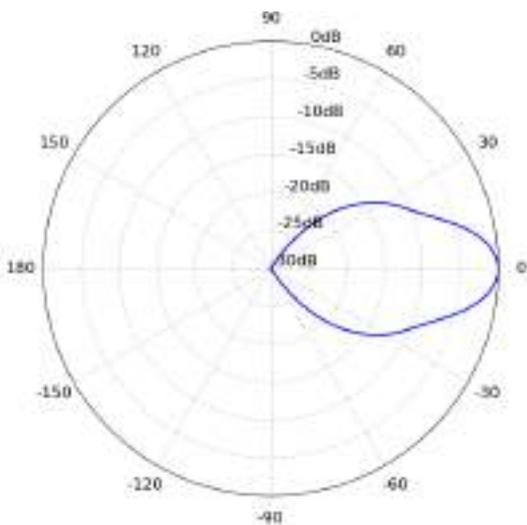
Vertical Azimuth



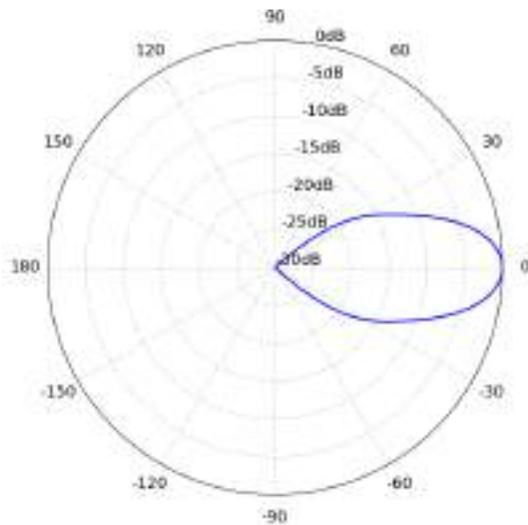
Vertical Elevation



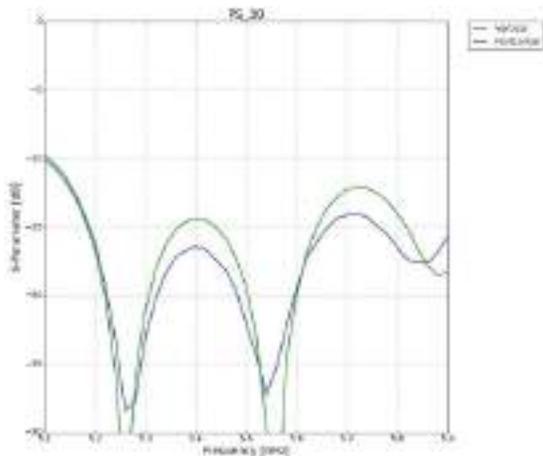
Horizontal Azimuth



Horizontal Elevation



Return Loss

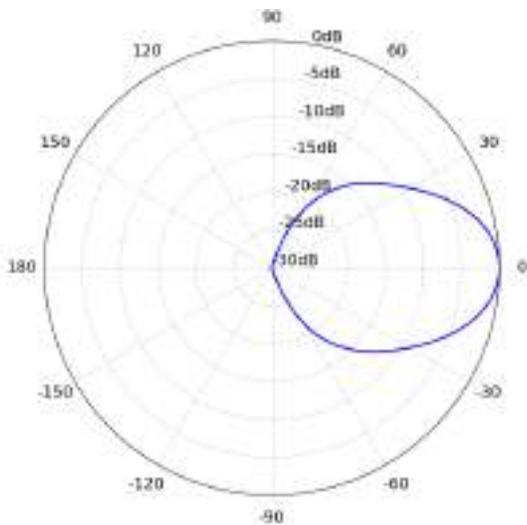


# Specifications

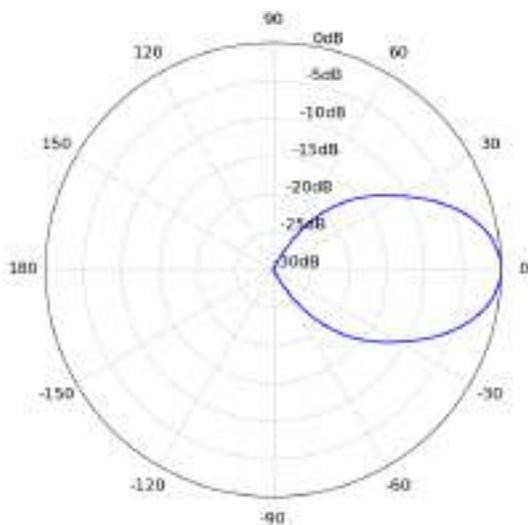
PrismAP-5-45	
Dimensions	Ø 175 x 184 mm (6.9 x 7.2")
Weight	1.34 kg (47.23 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	15.5 dBi
HPOL Beamwidth	45°
VPOL Beamwidth	45°
Elevation Beamwidth	45°
Maximum VSWR	1.7:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	56 N @ 200 km/h (12.6 lbf @ 125 mph)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



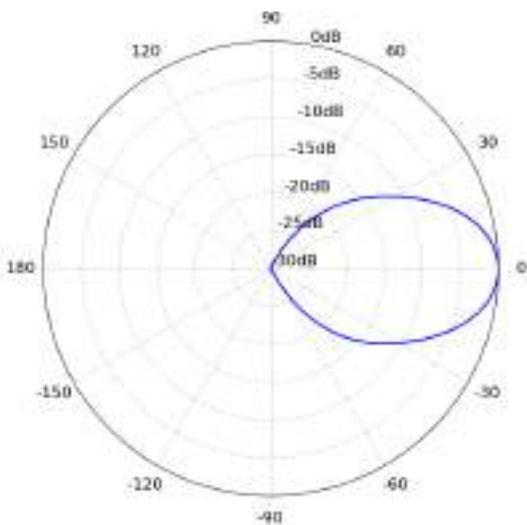
Vertical Azimuth



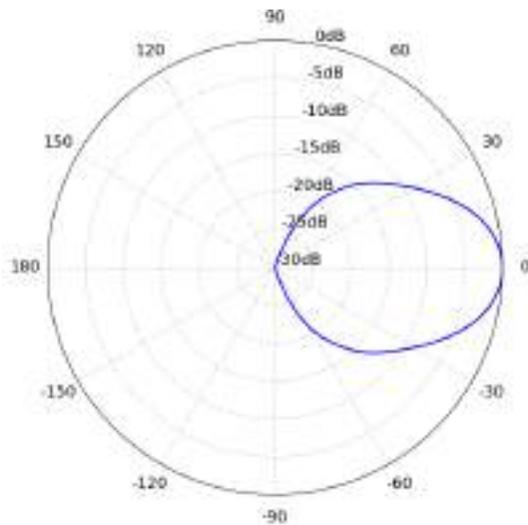
Vertical Elevation



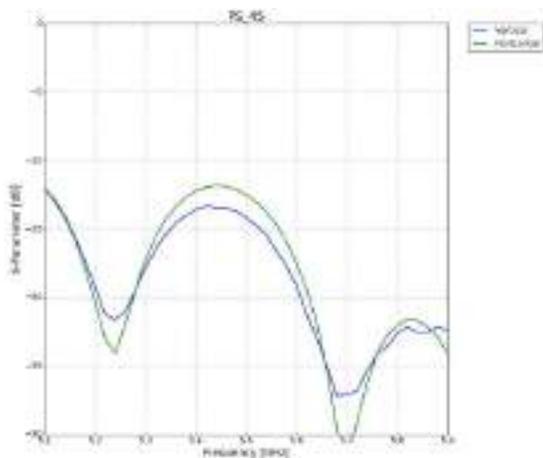
Horizontal Azimuth



Horizontal Elevation



Return Loss

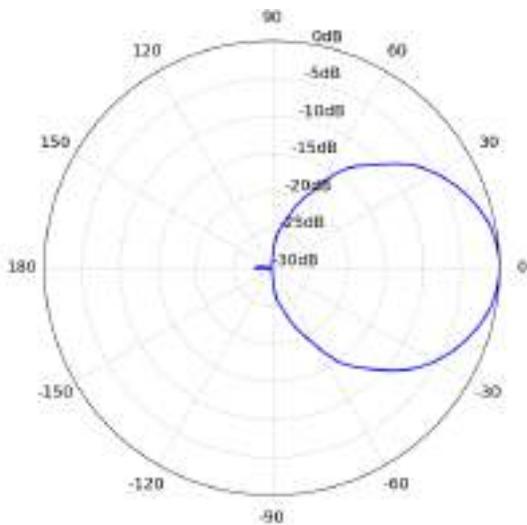


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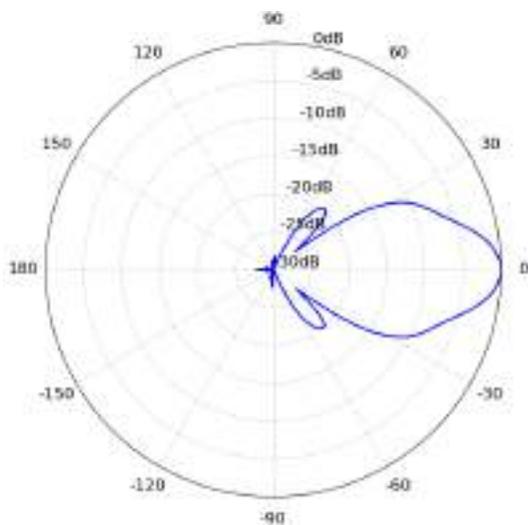
PrismAP-5-60	
Dimensions	161.6 x 173.3 x 170.9 mm (6.4 x 6.82 x 6.73")
Weight	720g (25.39 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	16 dBi
HPOL Beamwidth	60°
VPOL Beamwidth	60°
Elevation Beamwidth	30°
Maximum VSWR	2:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	50 N @ 200 km/h (11.2 lbf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



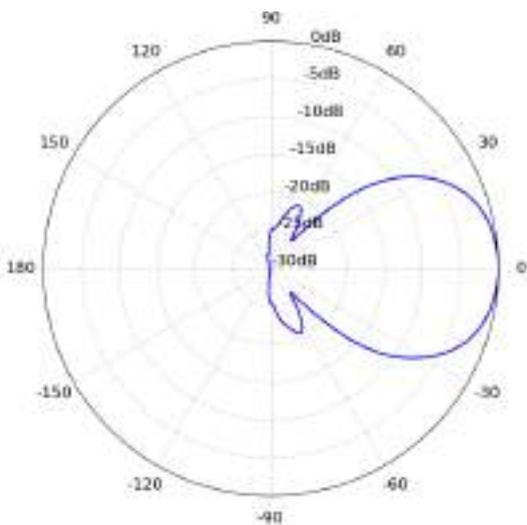
Vertical Azimuth



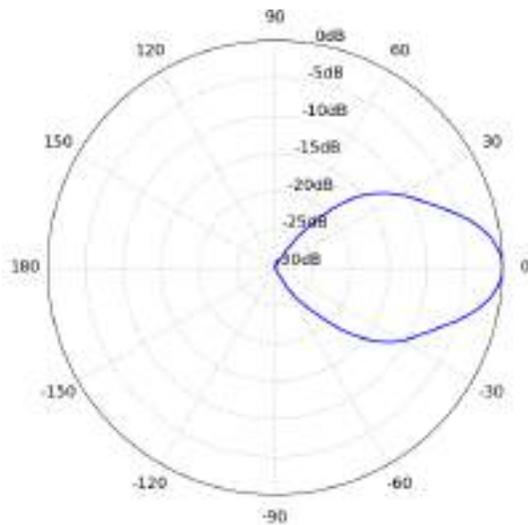
Vertical Elevation



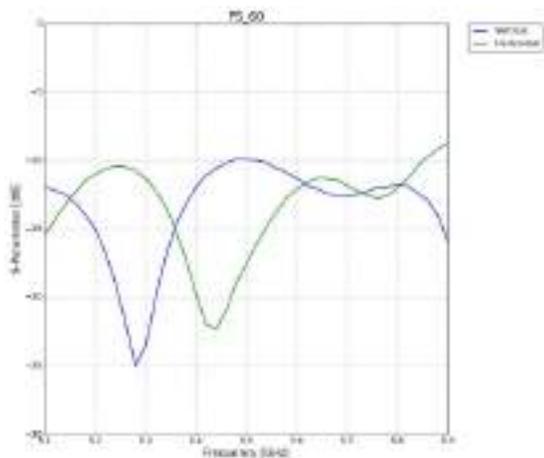
Horizontal Azimuth



Horizontal Elevation



Return Loss

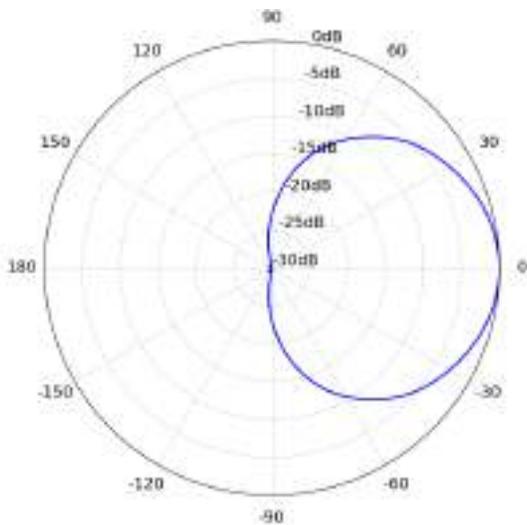


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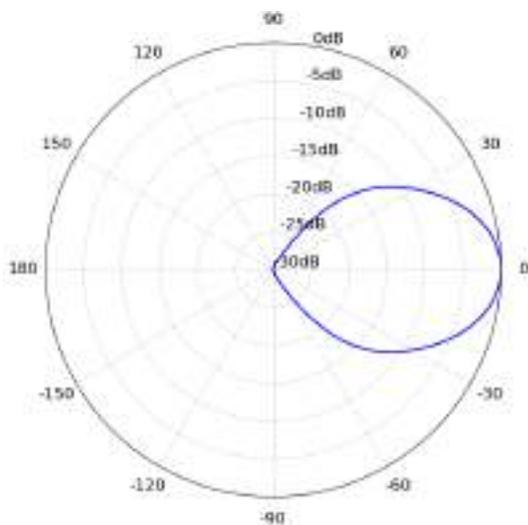
PrismAP-5-90	
Dimensions	152.1 x 186.8 x 113.2 mm (5.99 x 7.35 x 4.46")
Weight	920 g (32.45 oz)
Supported Frequency Range	5.15 - 5.85 GHz
Gain	13 dBi
HPOL Beamwidth	90°
VPOL Beamwidth	90°
Elevation Beamwidth	45°
Maximum VSWR	2:1
Wind Survivability	200 km/h (125 mph)
Wind Loading	46 N @ 200 km/h (10.3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



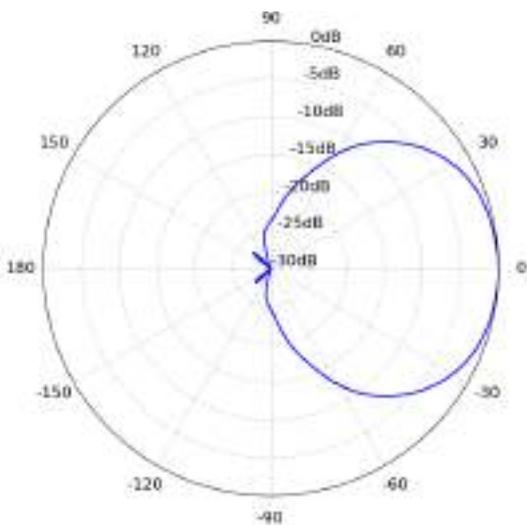
Vertical Azimuth



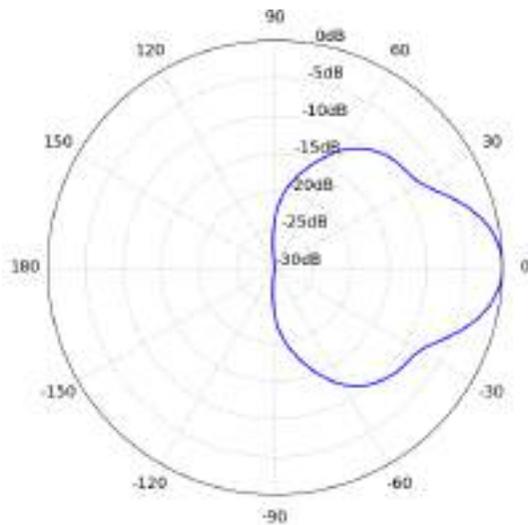
Vertical Elevation



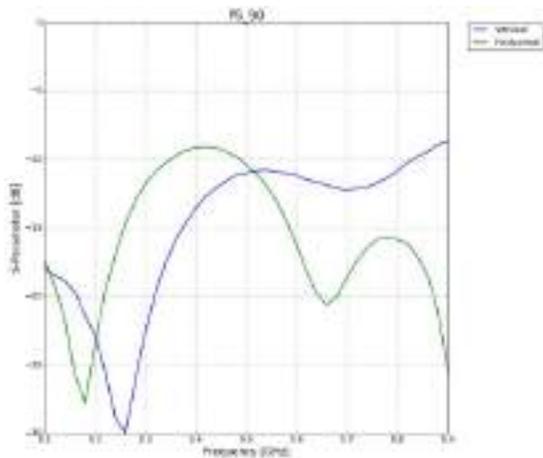
Horizontal Azimuth



Horizontal Elevation



Return Loss



Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: [www.ubnt.com/support/warranty](http://www.ubnt.com/support/warranty)  
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