

HPE Aruba Networking AP-ANT-311 Antenna for Indoor Access Points



Articulating direct-mount tri-band omni-directional dipole antenna (RP-SMA) for indoor use

The AP-ANT-311 antenna is a high-performance, tri-band, omni-directional, indoor antenna ideally designed for multifunction access points that require an omnidirectional coverage pattern for WLAN service delivery or air monitoring on the 2.4GHz, 5GHz and/or 6GHz bands.

The AP-ANT-311 has an articulating mount, providing flexibility in deployment and direct connection to Aruba access points, allowing the antennas to be oriented vertically regardless of the orientation and mount plane of the AP.

Specifications

Frequency bands, ranges, and peak gains

- 2.4GHz	2.400GHz – 2.500GHz	3dBi
- 5GHz	5.100GHz – 5.900GHz	6dBi
- 6GHz	5.900GHz – 7.150GHz	6dBi

Polarization

- Linear, Vertical

Pattern beamwidth (3dB)

- 2.4GHz	Elevation (V): 50 degrees	Azimuth (H): 360 degrees
- 5GHz	Elevation (V): 25 degrees	Azimuth (H): 360 degrees
- 6GHz	Elevation (V): 25 degrees	Azimuth (H): 360 degrees

Input impedance

- 50 Ohms

Maximum input power

- 2 Watts

VSWR

- < 2.0:1

Port isolation

- Not applicable – single element antenna

Dimensions

- 19mm x 14mm x 153 mm (antenna itself, articulating knuckle straight)
- 19mm x 39mm x 137 mm (antenna itself, articulating knuckle bent 90 degrees)
- 65mm x 14mm x 180mm (as it ships)

Weight

- 21g (antenna itself)
- 23g (as it ships)

Radome

- Material: ABS, UV resistant
- Color: White

Fly cable length & type / connector

- RP SMA plug

Operating temperature range and relative humidity

- -10°C to +55°C (temp) 95% @55°C (humidity)

Water and dust protection (IP rating)

- Not specified / tested

Wind speed

- Not applicable – indoor use only

Lightning protection

- Not applicable – indoor use only

Installation hardware

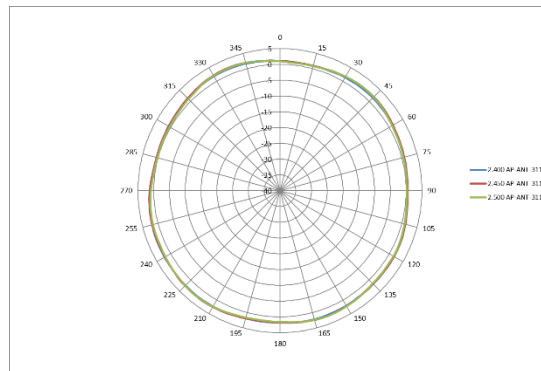
- Not applicable – antenna mounts directly to an Aruba AP

Shipping content

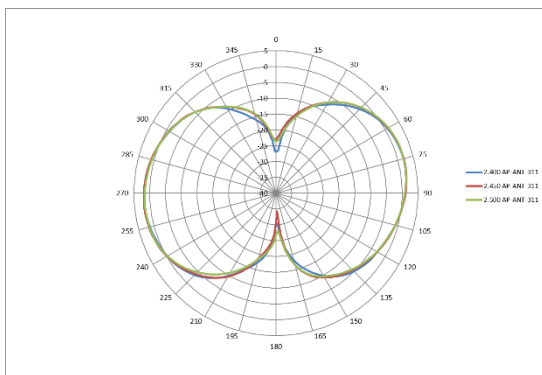
- This antenna ships in a labeled plastic bag

Antenna patterns

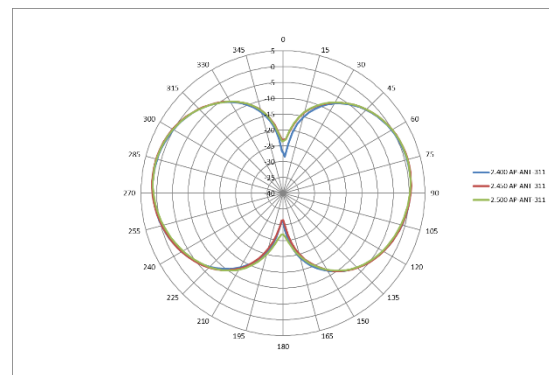
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



2.4GHz antenna patterns (horizontal)

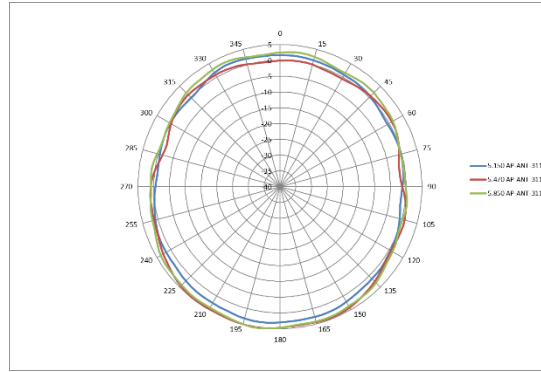


2.4GHz antenna patterns (vertical/0)

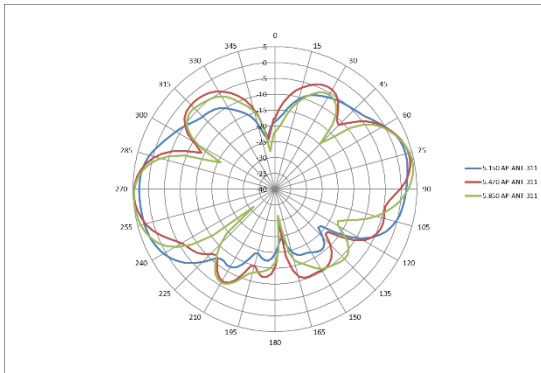


2.4GHz antennas patterns (vertical/90)

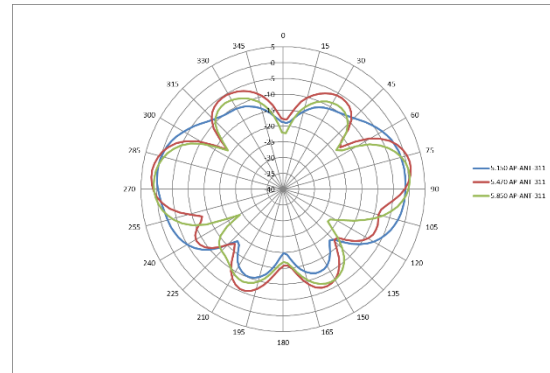
Datasheet – HPE Aruba Networking AP-ANT-311 Antenna for Indoor Access Points



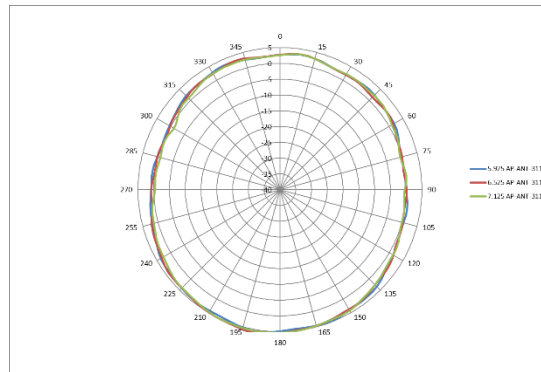
5GHz antenna patterns (horizontal)



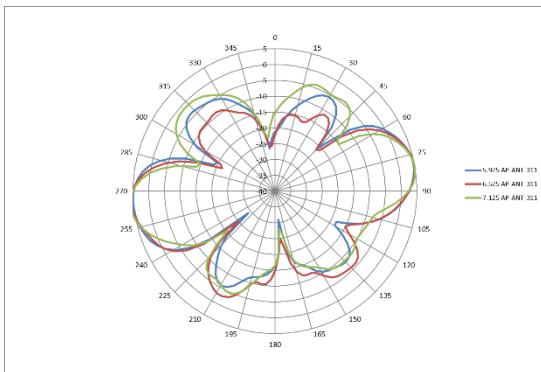
5GHz antenna patterns (vertical/0)



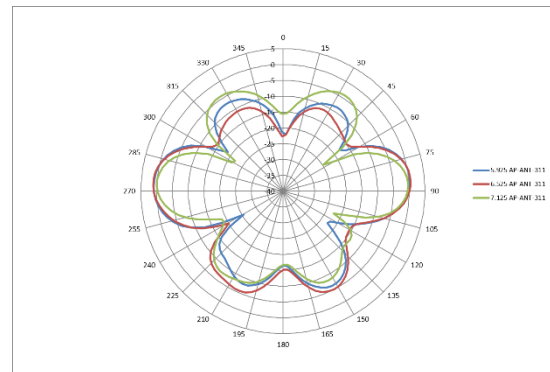
5GHz antennas patterns (vertical/90)



6GHz antenna patterns (horizontal)

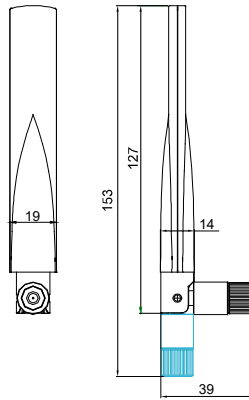


6GHz antenna patterns (vertical/0)



6GHz antennas patterns (vertical/90)

Mechanical drawings



Ordering information

Part number	Description
HPE Aruba Networking Antennas for Indoor Access Points (RP-SMA)	
S1F79A	HPE Aruba Networking AP-ANT-311 Direct-Mount RP-SMA Tri-Band 1x1 Omni Dipole Antenna