

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

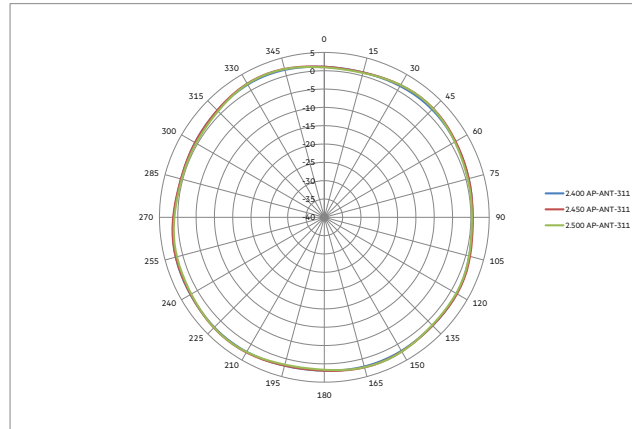
Not applicable—antenna mounts directly to an Aruba AP

Shipping content

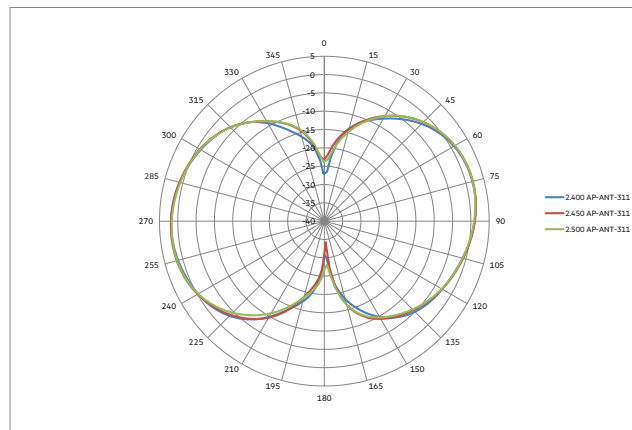
This antenna ships in a labeled plastic bag

Antenna patterns

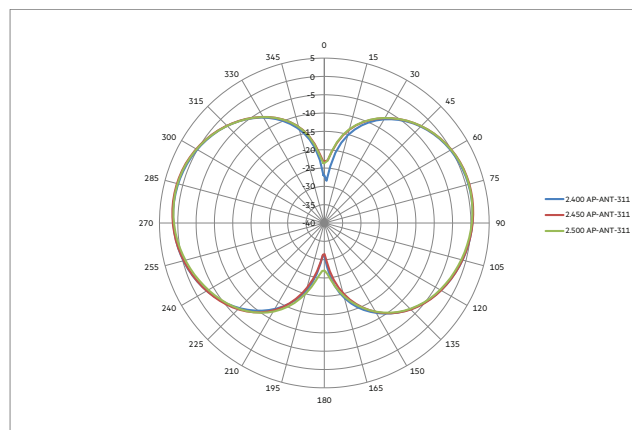
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



2.4GHz antenna patterns (horizontal)



2.4GHz antenna patterns (vertical/0)

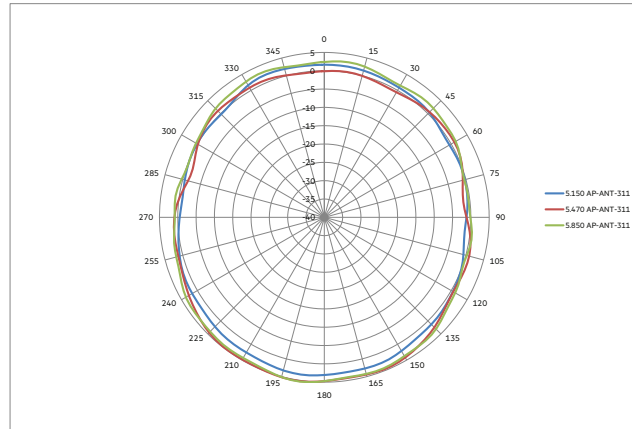


2.4GHz antenna patterns (vertical/90)

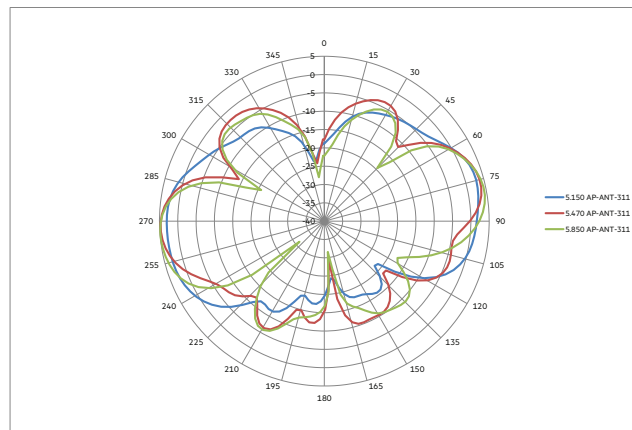


Antenna patterns

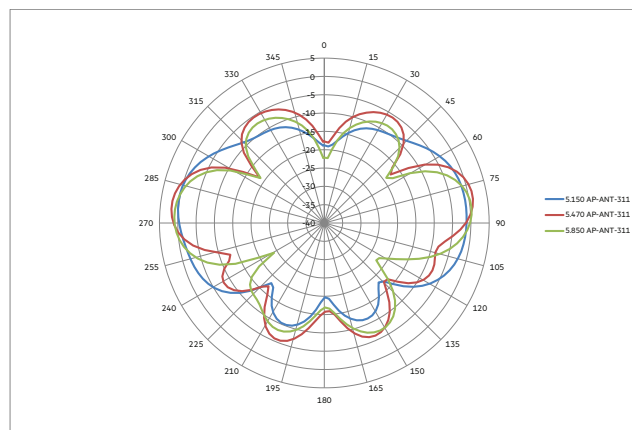
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



5GHz antenna patterns (horizontal)



5GHz antenna patterns (vertical/0)

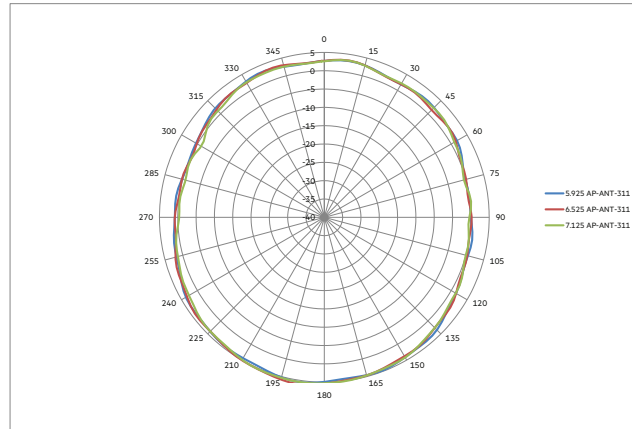


5GHz antennas patterns (vertical/90)

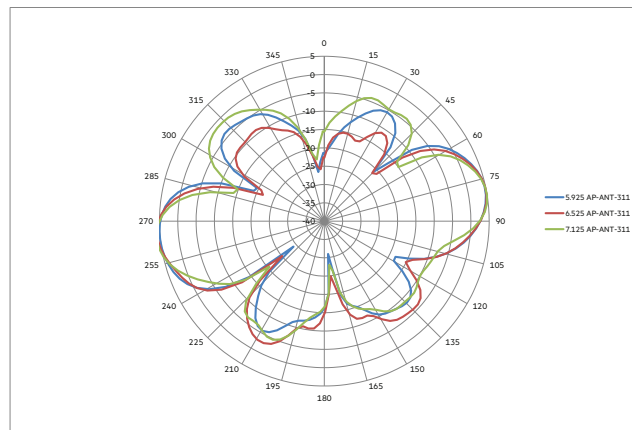


Antenna patterns

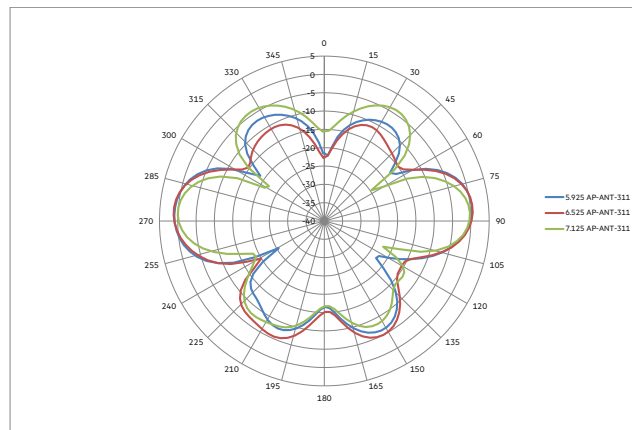
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



6GHz antenna patterns (horizontal)



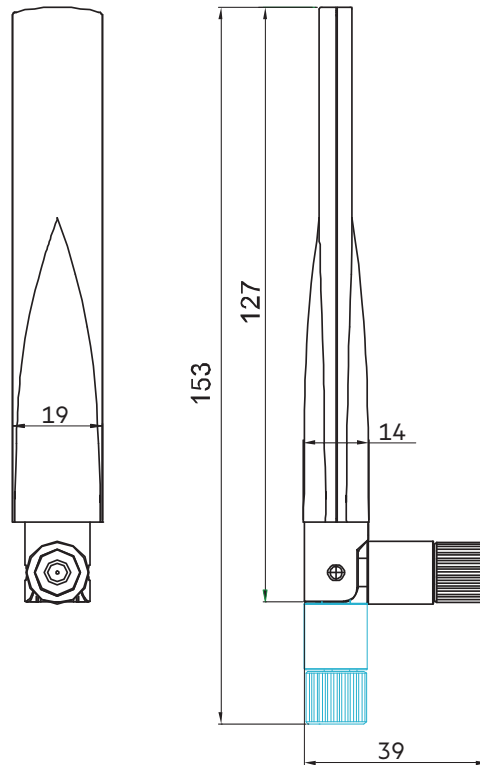
6GHz antenna patterns (vertical/0)



6GHz antenna 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

Make the right purchase decision.
Contact our presales specialists.

