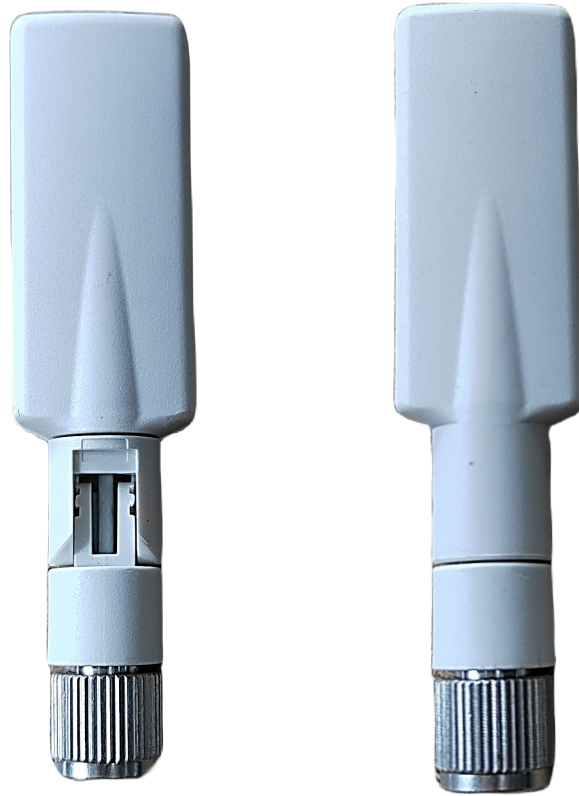


HPE Aruba Networking AP-ANT-312 Antenna for Indoor Access Points



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

The AP-ANT-312 antenna is a low-profile, 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-312 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, in deployments where available space is limited and AP-ANT-311 cannot be used.

Specifications

Frequency range(s) and peak gain

- | | | |
|----------|---------------------|--------|
| - 2.4GHz | 2.400GHz – 2.500GHz | 3.3dBi |
| - 5GHz | 5.150GHz – 5.850GHz | 3.3dBi |
| - 6GHz | 5.925GHz – 7.125GHz | 4.1dBi |

Polarization

- Linear, vertical

Pattern beamwidth (3dB)

- 2.4GHz Elevation (V): 39 degrees Azimuth (H): 360 degrees
- 5GHz Elevation (V): 72 degrees Azimuth (H): 360 degrees
- 6GHz Elevation (V): 60 degrees Azimuth (H): 360 degrees

Input impedance

- 50 Ohms

Maximum input power

- 1 Watt

VSWR

- < 2.0:1

Port isolation

- Not applicable – single element antenna

Dimensions

- 16.5mm x 28.2mm x 51.0mm (articulating knuckle bent 90 degrees)
- 16.5mm x 10.3mm x 69.2mm (articulating knuckle straight)
- 35mm x 10.5mm x 100mm (as it ships)

Weight

- 10.5g (antenna itself)
- 10.9g (as it ships)

Radome

- Material: PC + ABS, UL94-V0
- Color: white

Fly cable length / connector

- Articulating mount with built-in RP-SMA male connector

Operating temperature range and relative humidity

- -40°C to +95°C 0% to 95% RH

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

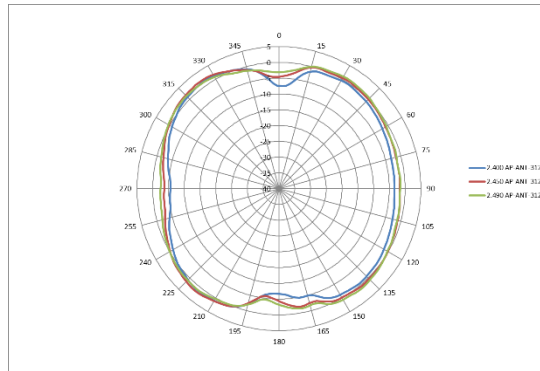
- Not applicable – antenna mounts directly to an Aruba AP

Shipping content

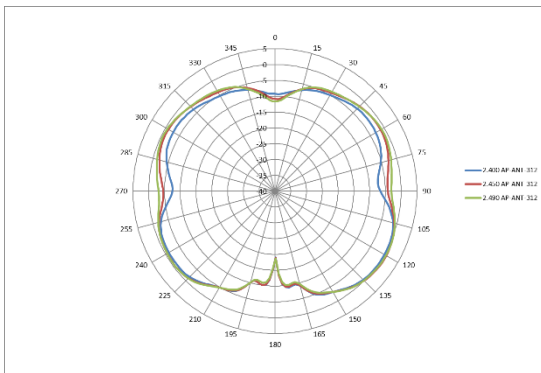
- This antenna ships in a labeled plastic bag

Antenna patterns

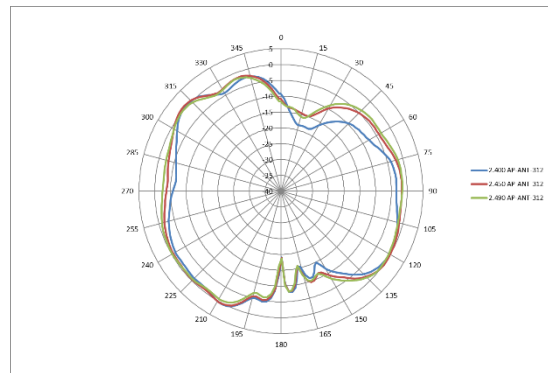
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



2.4GHz antenna patterns (horizontal)

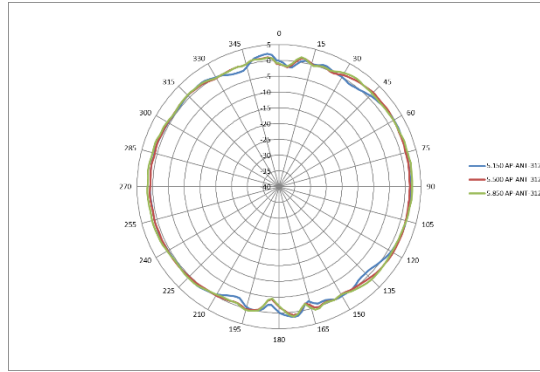


2.4GHz antenna patterns (vertical/0)

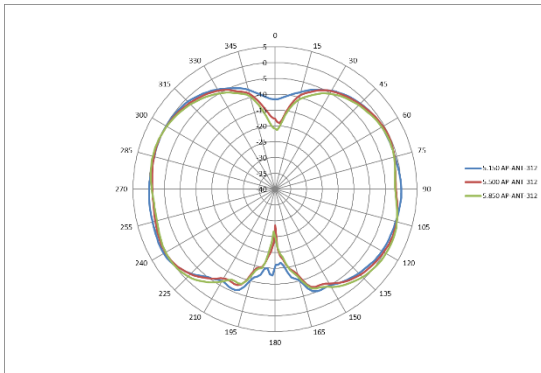


2.4GHz antennas patterns (vertical/90)

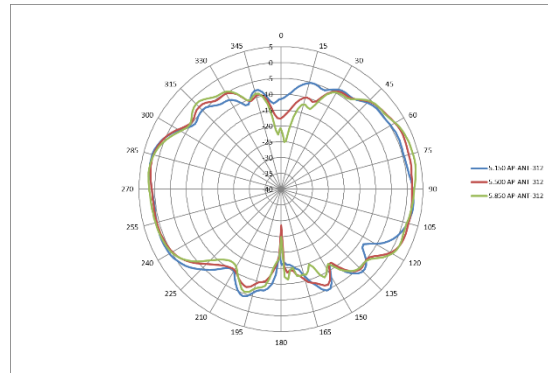
Datasheet – HPE Aruba Networking AP-ANT-312 Antenna for Indoor Access Points



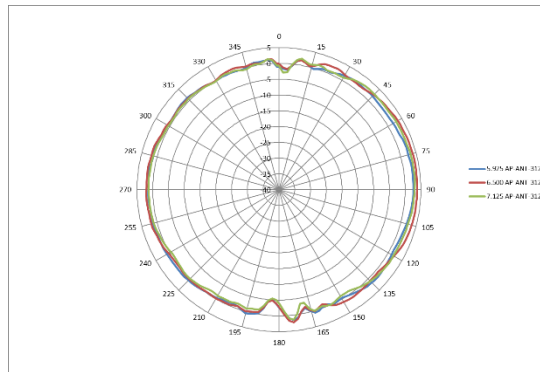
5GHz antenna patterns (horizontal)



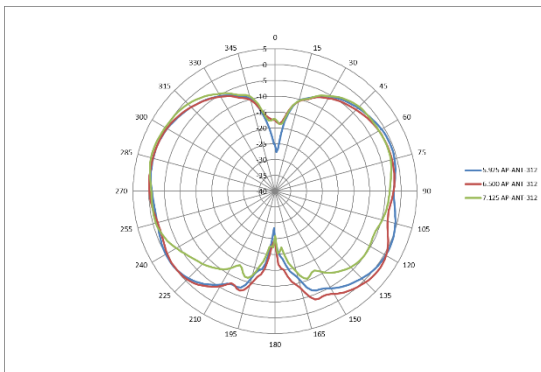
5GHz antenna patterns (vertical/0)



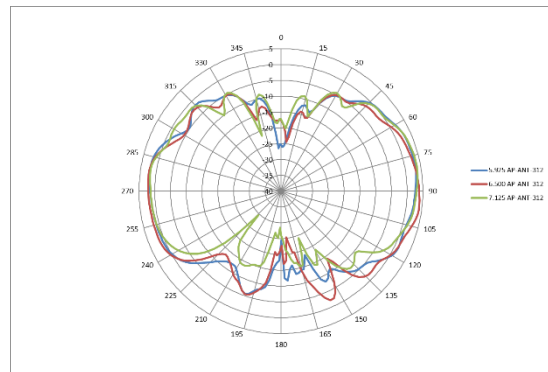
5GHz antennas patterns (vertical/90)



6GHz antenna patterns (horizontal)



6GHz antenna patterns (vertical/0)



6GHz antennas patterns (vertical/90)

Mechanical details



Ordering information

Part number	Description
HPE Aruba Networking Antennas for Indoor Access Points (RP-SMA)	
S1F80A	HPE Aruba Networking AP-ANT-312 Direct-Mount RP-SMA Tri-Band 1x1 Low-Profile Omni Dipole Antenna