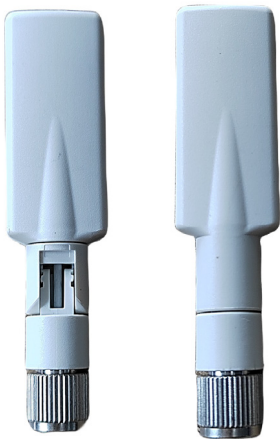


HPE Aruba Networking AP-ANT-312 Antenna for Indoor Access Points



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 bands, ranges, and peak gains

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& type/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

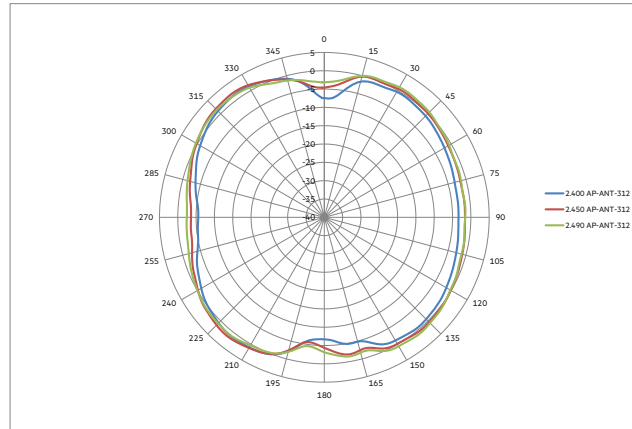
Not applicable—antenna mounts directly to an Aruba AP

Shipping content

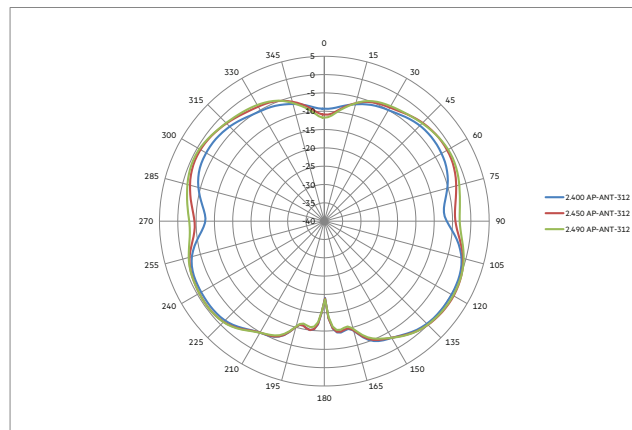
This antenna ships in a labeled plastic bag

Antenna patterns

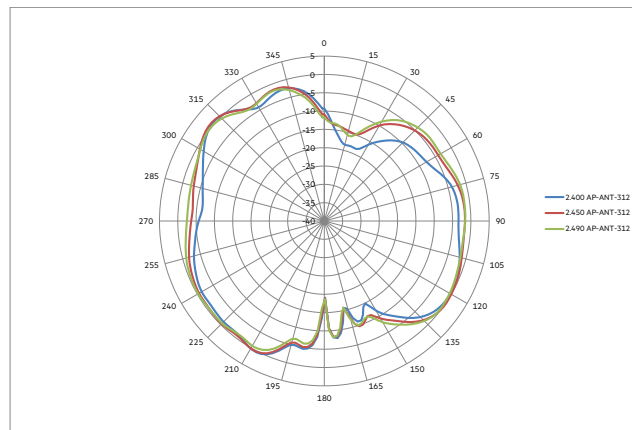
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



2.4GHz antenna patterns (horizontal)



2.4GHz antenna patterns (vertical/0)

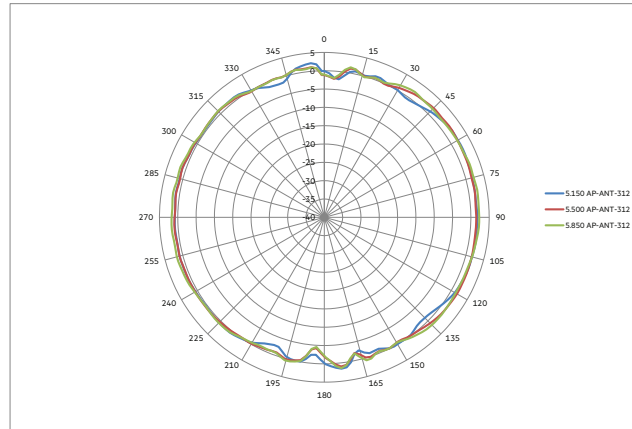


2.4GHz antenna patterns (vertical/90)

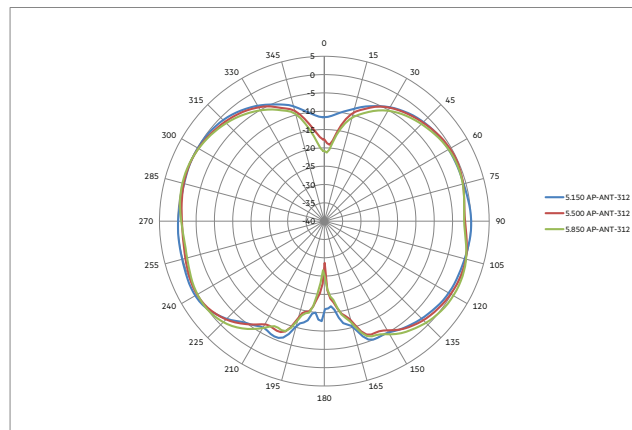


Antenna patterns

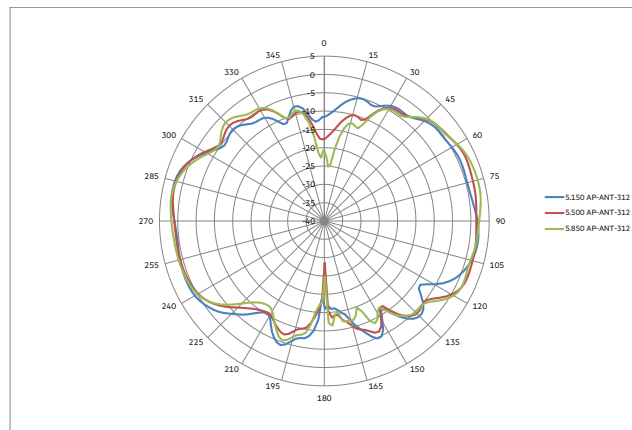
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



5GHz antenna patterns (horizontal)



5GHz antenna patterns (vertical/0)

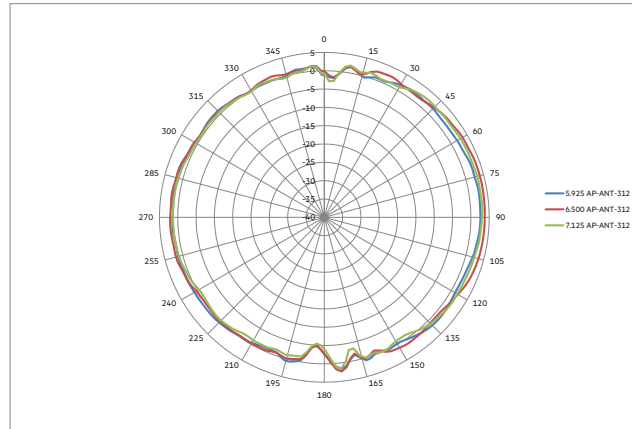


5GHz antennas patterns (vertical/90)

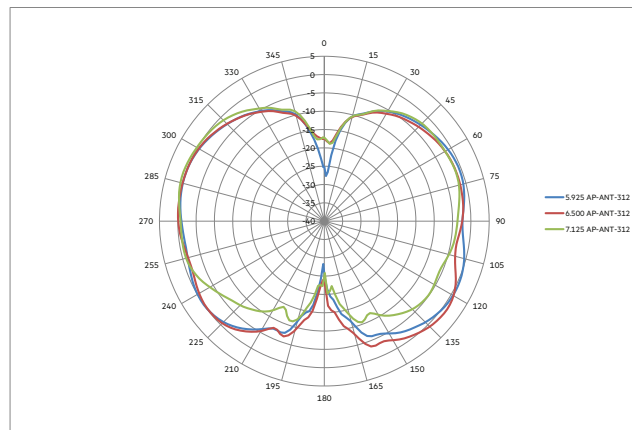


Antenna patterns

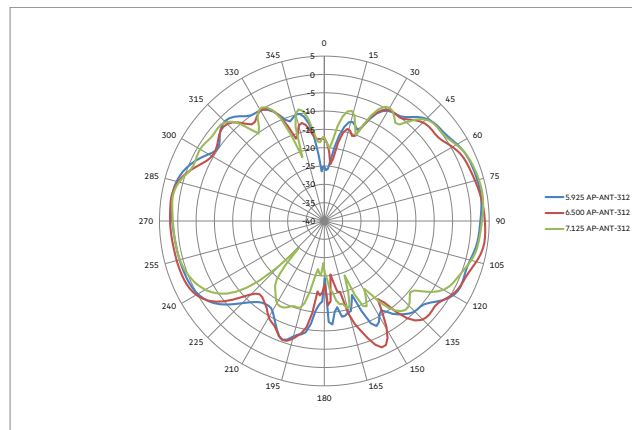
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



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)

S1F80A HPE Aruba Networking AP-ANT-312 Direct-Mount RP-SMA Tri-Band 1x1 Low-Profile Omni Dipole Antenna

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