HPE Aruba Networking AP-ANT-325 antenna for indoor access points

Dual-polarized cabled triband 2-element medium gain directional panel antenna (RP-SMA) for indoor and outdoor use



The AP-ANT-325 antenna is a triband, 2-element, dual-polarized panel antenna with nominal 90°H x 90°V beamwidths and 6.1dBi peak gain. This antenna is well suited for indoor and outdoor sector coverage for Wi-Fi access in 2.4 GHz, 5 GHz, and/or 6 GHz concurrently.

The AP-ANT-325 can be mounted directly to a wall (or ceiling) using the supplied screws and anchors, or if more flexibility is needed it can be combined with the optional AP-ANT-MNT-U articulating wall/pole mount.

Specifications

Frequency bands, ranges, and peak gains

– 2.4 GHz	2.400 GHz to 2.500 GHz	6.1dBi
– 5 GHz	4.900 GHz to 5.900 GHz	6.1dBi
– 6 GHz	6.000 GHz to 7.150 GHz	5.4 dBi

Polarization

– Cross pol (ratio — 9:1)

Pattern beamwidth (3 dB)

– 2.4 GHz	Elevation (V): Approximately 79.1°	Azimuth (H): Approximately 79.3°
– 5.0 GHz	Elevation (V): Approximately 78.5°	Azimuth (H): Approximately 83.2°
– 6.0 GHz	Elevation (V): Approximately 78.0°	Azimuth (H): Approximately 80.3°

Input impedance

– 50 Ohms

Maximum input power

– 33 dBm (2W) per port

VSWR

– < 2:1

Port isolation

– 2.4GHz	20dB
– 5GHz	25dB
– 6GHz	23dB

Dimensions

– 200 mm (W) x 200 mm (L) x 46.5 mm (H) (antenna itself)
– 250 mm (W) x 220 mm (L) x 58 mm (H) (as it ships)

Weight

– 0.4 kg (antenna itself)
– 0.6 kg (as it ships)

Radome

– Material: ASA, Luran S 788T, UV
– Color: White

Fly cable length and type/connector

– 75±0.8 cm Plenum Rated RG58LL/ RP-SMA-Male (x2)

Operating temperature range and relative humidity

– –40°C to 65°C 10% to 95% RH

Water and dust protection (IP rating)

– IP67

Wind speed

– Up to 136 mph

Lightning protection

– N/A

Installation hardware

– There are two mounting options:

- Wall mounting hardware kit is included
- The antenna is also equipped with 4xM5x0.8-6H for articulating bracket option.

Shipping content

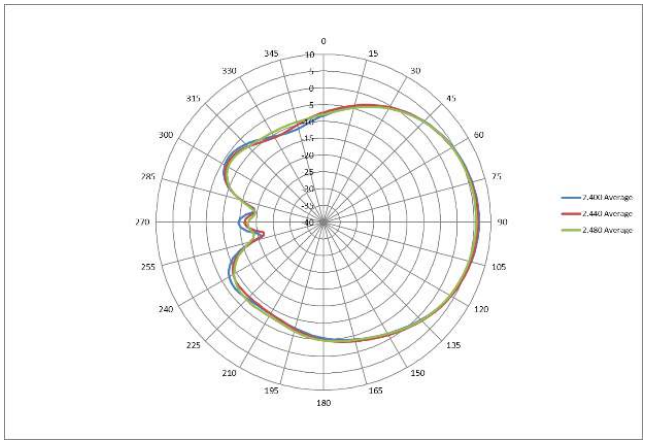
– Antenna, mounting hardware, and instruction manual included in unit carton

Antenna patterns (averaged for both antenna elements)

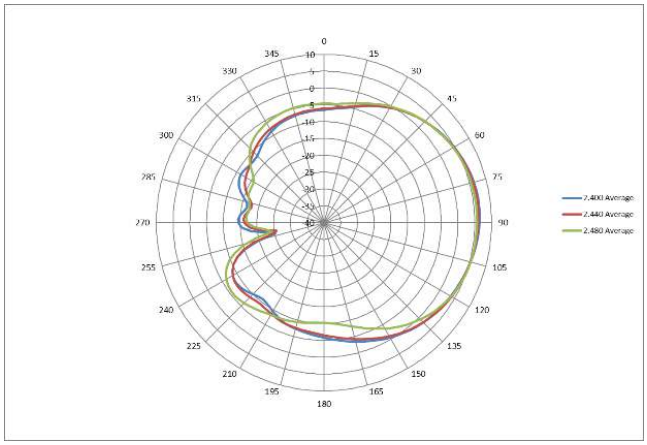
Horizontal (azimuth) plane (top view) & Vertical (elevation) plane (side view)



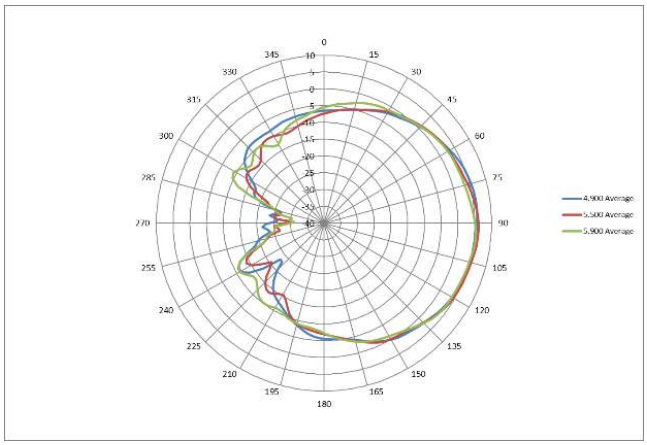
Figure 1. RP-SMA male connector



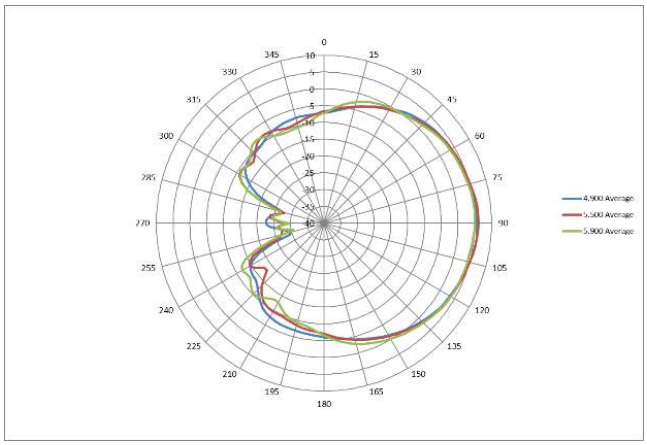
2.4 GHz antenna patterns (horizontal)



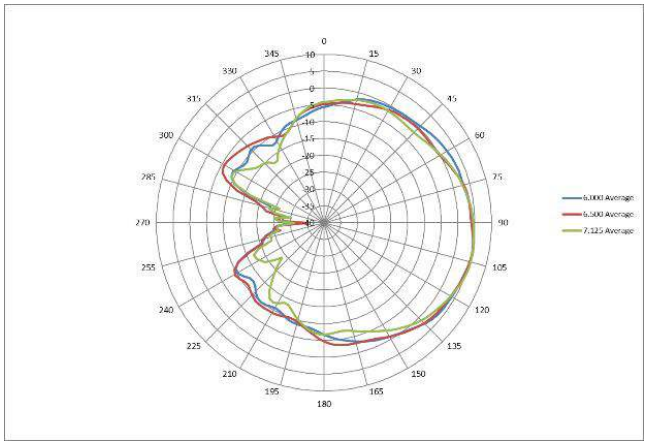
2.4 GHz antenna patterns (vertical)



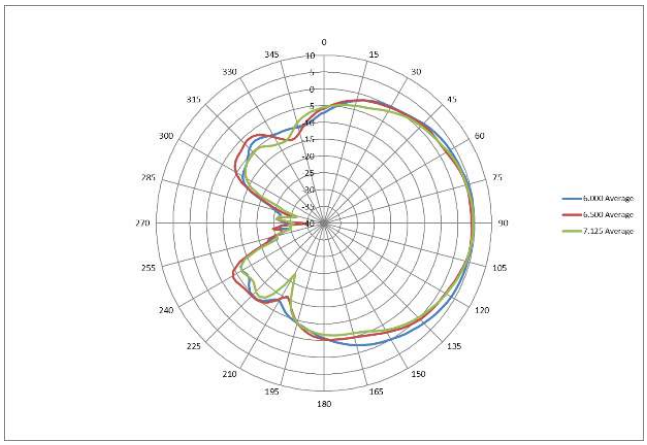
5 GHz antenna patterns (horizontal)



5 GHz antenna patterns (vertical)



6 GHz antenna patterns (horizontal)



6 GHz antenna patterns (vertical)

Figure 2. Diagrams of antenna patterns for AP-ANT-325

Mechanical drawings

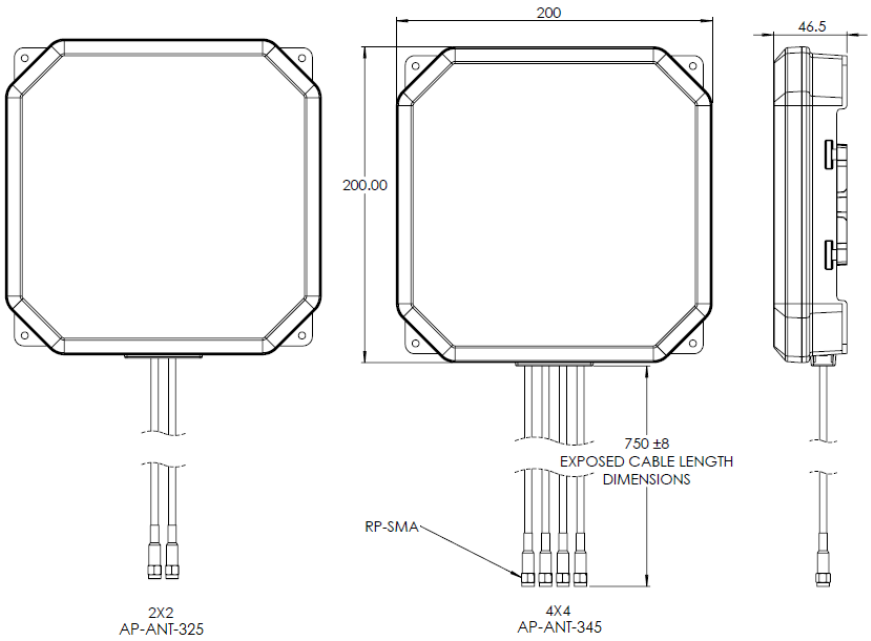


Figure 3. Mechanical drawing showing dimensions of front and side view of AP-ANT-325 and AP-ANT-345

Ordering information

Partner number	Description
HPE Aruba Networking antennas for indoor access points (RP-SMA)	
S1F86A	HPE Aruba Networking AP-ANT-325 cabled RP-SMA triband 2x2 medium gain directional panel antenna

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