Data sheet



HPE Aruba Networking AP-ANT-345 antenna for indoor access points

Dual-polarized cabled triband 4-element medium gain directional panel antenna (RP-SMA) for indoor and outdoor use.

The AP-ANT-345 antenna is a triband, 4-element, dual-polarized panel antenna with nominal 90°H x 90°V beamwidths and 6.1 dBi 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-345 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.



Figure 1. RP-SMA male connector

Specifications

Frequency bands, ranges, and peak gains

— 2.4 GHz	2.400 GHz to 2.500 GHz	6.1 dBi
— 5 GHz	4.900 GHz to 5.900 GHz	6.1 dBi
— 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

— 2.4 GHz	20 dB
— 5 GHz	25 dB
— 6 GHz	23 dB

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 (x4)

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

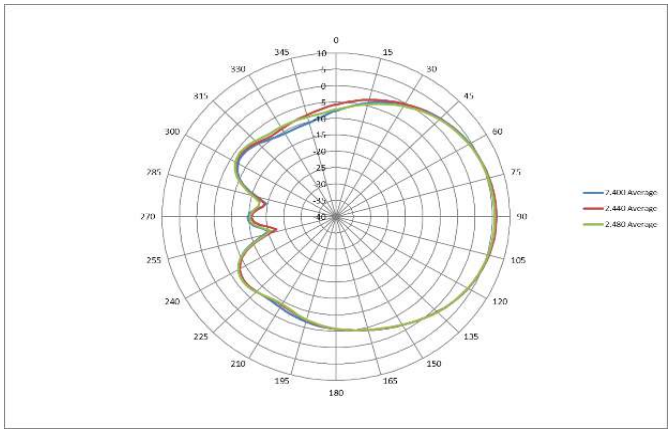
— The antenna is also equipped with 4xM5x0.8-6H for articulating bracket option

Shipping content

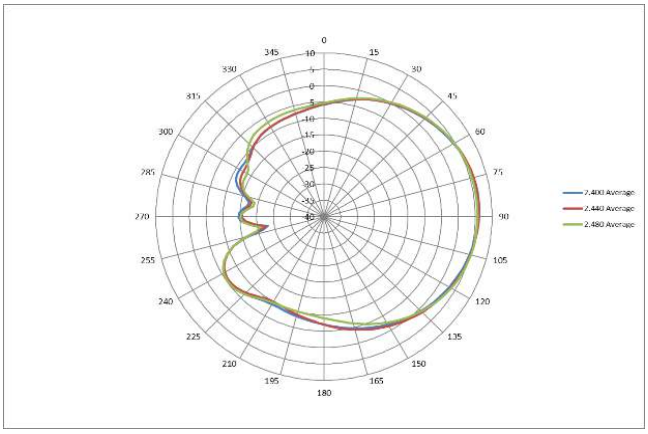
— Antenna, mounting hardware, and instruction manual included in unit carton

Antenna patterns (averaged for all four antenna elements)

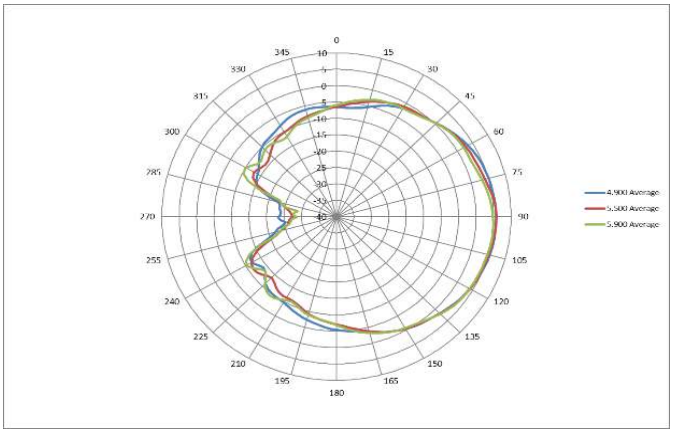
Horizontal (azimuth) plane (top view) and vertical (elevation) plane (side view)



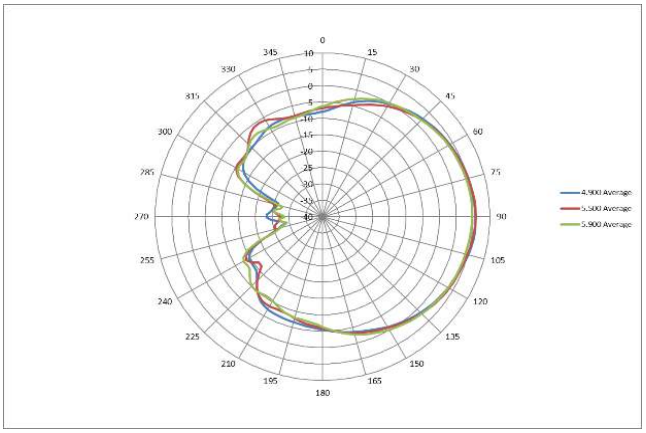
2.4 GHz antenna patterns (horizontal)



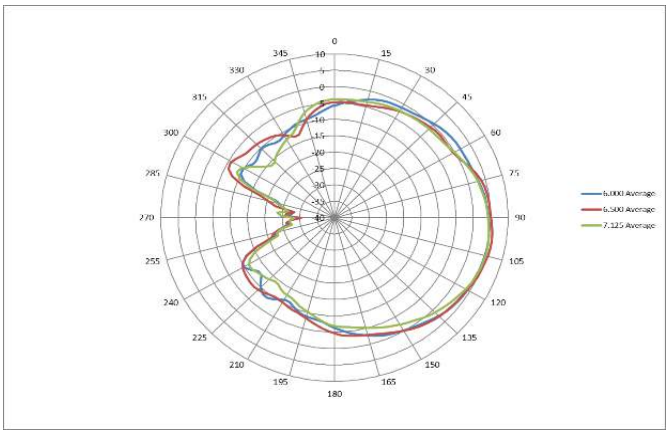
2.4 GHz antenna patterns (vertical)



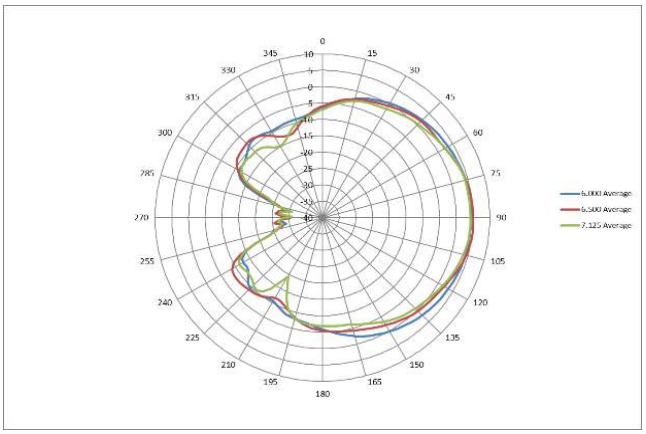
5 GHz antenna patterns (horizontal)



5 GHz antenna patterns (vertical)



6 GHz antenna patterns (horizontal)



6 GHz antenna patterns (vertical)

Figure 2. Diagrams of antenna patterns for AP-ANT-345

Mechanical drawings

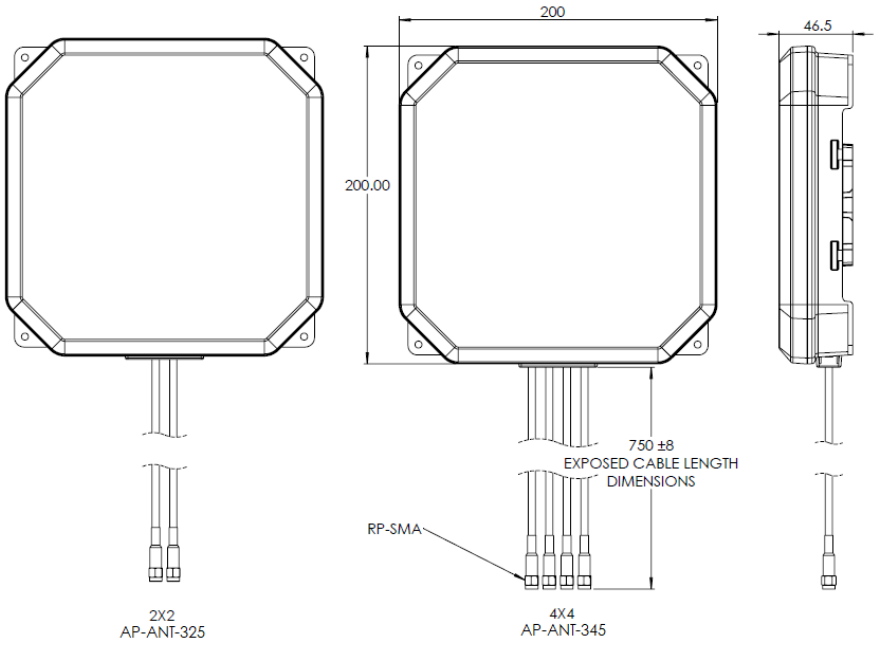


Figure 3. Mechanical drawing showing dimensions of front and side view of AP-ANT-325 and AP-ANT-345

Ordering information

Partner number	Description
HPE Aruba Networking antennas for indoor access points (RP-SMA)	
S1F83A	HPE Aruba Networking AP-ANT-345 cabled RP-SMA triband 4x4 medium gain directional panel antenna

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