

HPE Aruba Networking AP-ANT-320 antenna for indoor access points



Dual-polarized tri-band 2-element low-profile down-tilt-omni antenna (RP-SMA, cabled) for indoor use

The AP-ANT-320 antenna is a tri-band, 2-element, dual-polarized low-profile down-tilt omnidirectional antenna, intended for discrete ceiling mounted applications, providing coverage for Wi-Fi access in 2.4GHz, 5GHz and/or 6GHz concurrently.

The AP-ANT-320 mounts directly to the suspended ceiling tile.

Specifications

Frequency bands, ranges, and peak gains

2.4GHz	2.400GHz–2.500GHz	4dBi
5GHz	5.100GHz–5.900GHz	5dBi
6GHz	5.900GHz–7.150GHz	5dBi

Polarization

Linear, Vertical

Pattern beamwidth (3dB)

2.4GHz	Elevation (V): ~90 degrees (40° downtilt) Azimuth (H): 360 degrees
5GHz	Elevation (V): ~60 degrees (40° downtilt) Azimuth (H): 360 degrees
6GHz	Elevation (V): ~60 degrees (40° downtilt) Azimuth (H): 360 degrees

Input impedance

50 Ohms

Maximum input power

2 Watts

VSWR

< 2.0:1

Port isolation

2.4GHz 18dB

5GHz 18dB

6GHz 18dB

Dimensions

177.8mm (D) x 32mm (H) (antenna itself)

214mm (L) x 214mm (W) x 118mm (H) (as it ships)

Weight

0.29kg (antenna itself)

0.51kg (as it ships)

Radome

Material: PC/ABS, UV resistant

Color: White

Fly cable length& type/connector

75±1.8cm Plenum Rated
RG58LL/RP-SMA-Male (x2)

Operating temperature range and relative humidity

-40°C to +70°C (temp)
TBD (humidity)

Water and dust protection (IP rating)

IP20

Wind speed

Not applicable—indoor use only

Lightning protection

DC short circuit

Installation hardware

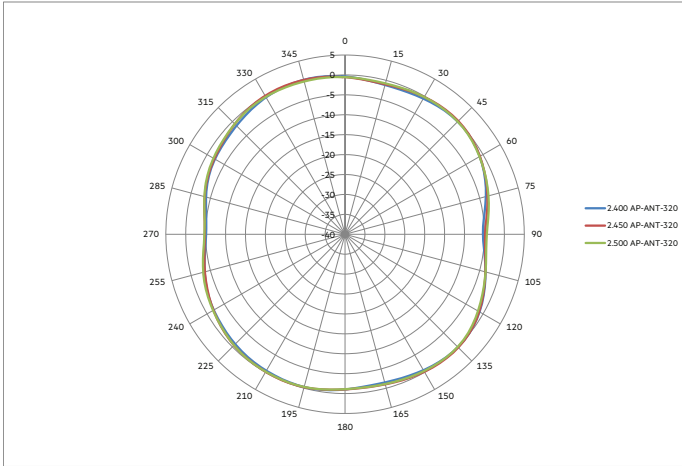
The primary mounting method for drywall or tile flush mount uses the threaded post on the back of the antenna and supplied mounting nut. The post protrudes through the tile or drywall material and feeds the four RF cables. Alternatively, the antenna can be attached directly to a solid wall or ceiling surface using additional hardware supplied with the antenna.

Shipping content

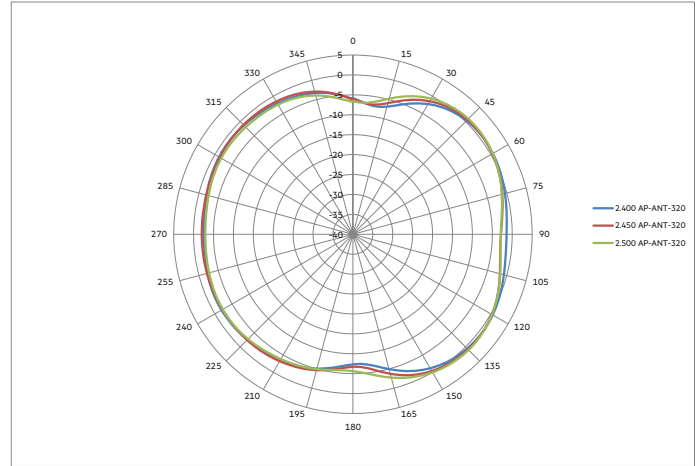
Antenna, mounting hardware and instruction manual included in unit carton

Antenna patterns (typical for both antenna elements)

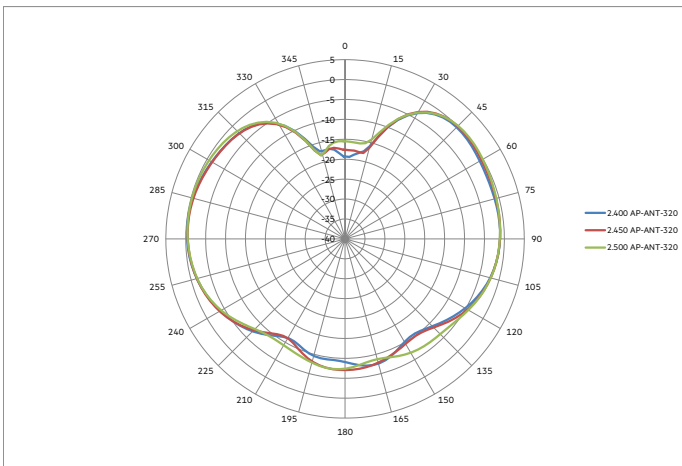
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



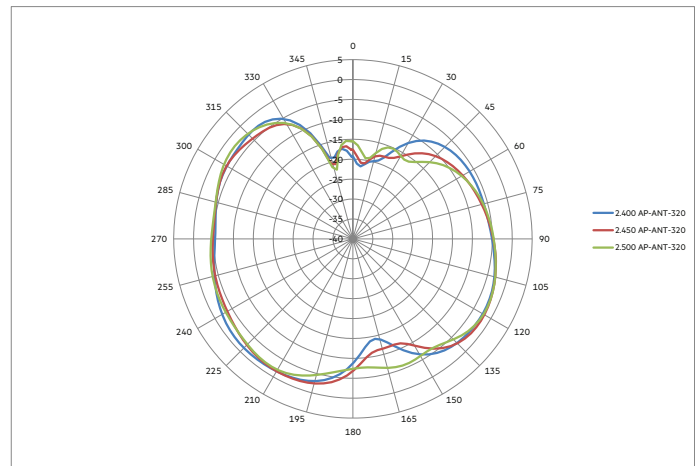
2.4GHz antenna patterns (horizontal)



2.4GHz Antenna patterns (40° downtilt horizontal)



2.4GHz antenna patterns (vertical/0)

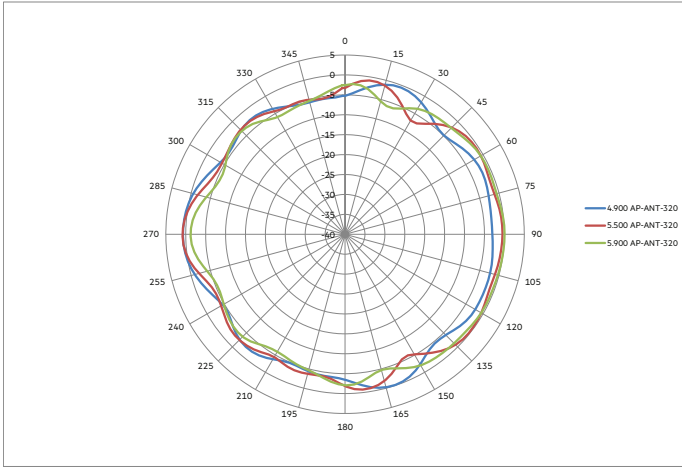


2.4GHz antenna patterns (vertical/90)

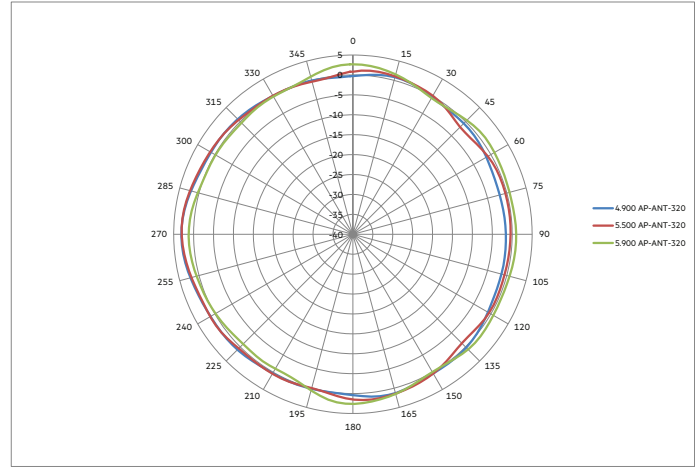


Antenna patterns (typical for both antenna elements)

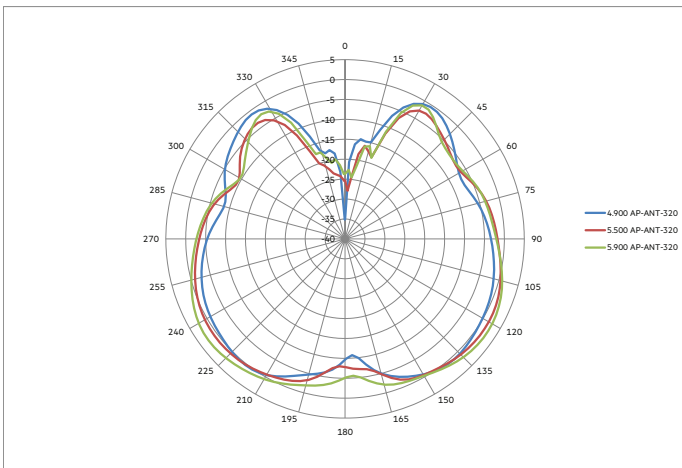
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



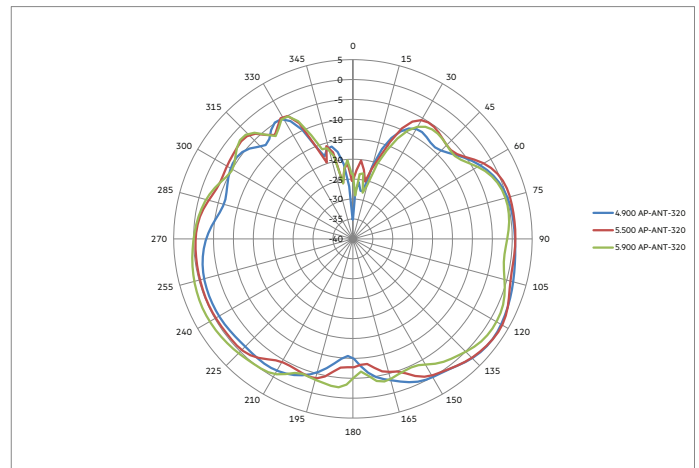
5GHz antenna patterns (horizontal)



5GHz antenna patterns (40° downtilt horizontal)



5GHz antenna patterns (vertical/0)

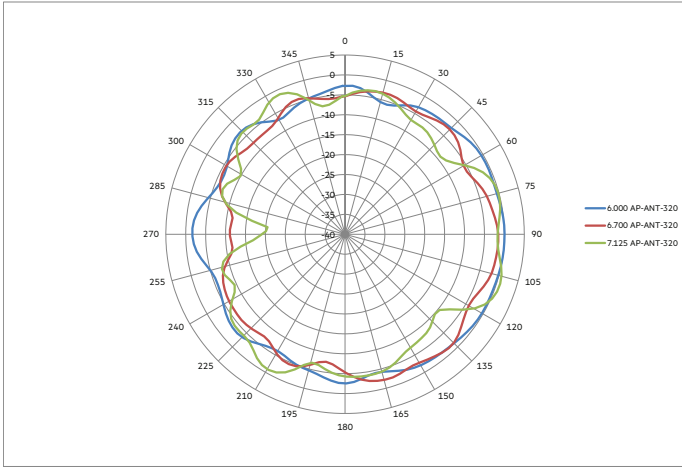


5GHz antennas patterns (vertical/90)

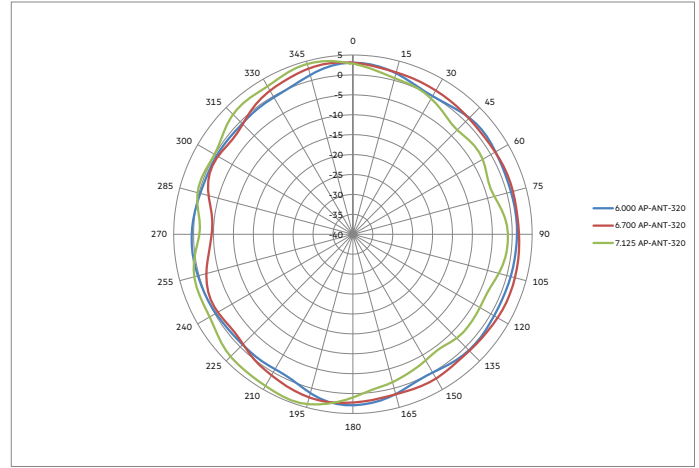


Antenna patterns (typical for both antenna elements)

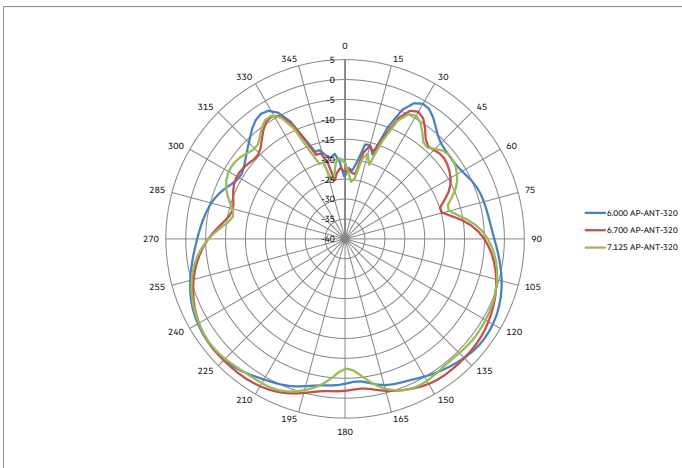
Horizontal (azimuth) plane (top view) & Vertical (elevation) planes (front/side view)



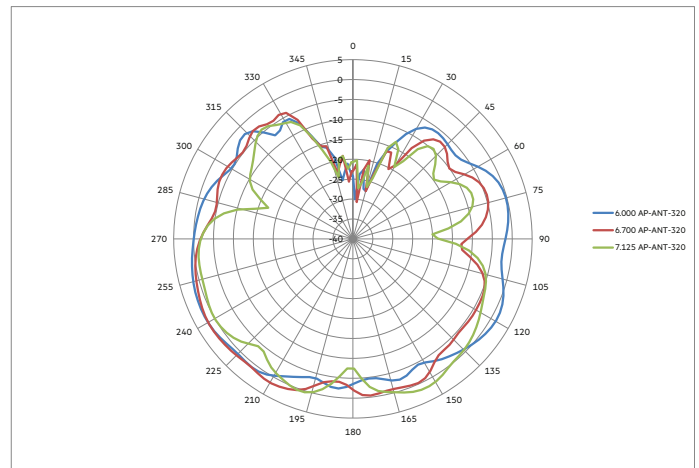
6GHz antenna patterns (horizontal)



6GHz antenna patterns (40° downtilt horizontal)



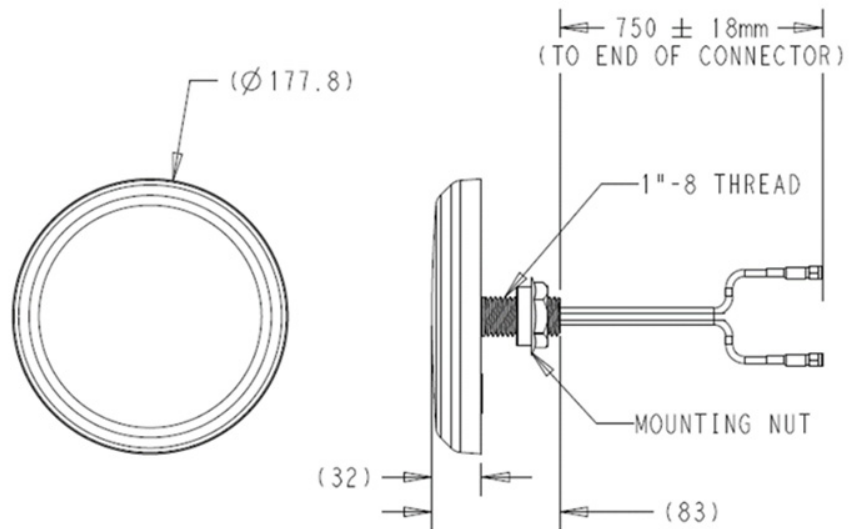
6GHz antenna patterns (vertical/0)



6GHz antennas patterns (vertical/90)



Mechanical drawings



Ordering information

Part number	Description
HPE Aruba Networking Antennas for Indoor Access Points (RP-SMA)	
S1F85A	HPE Aruba Networking AP-ANT-320 Cabled RP-SMA Tri-Band 2x2 Downtilt Omni Ceiling Antenna

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