# 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
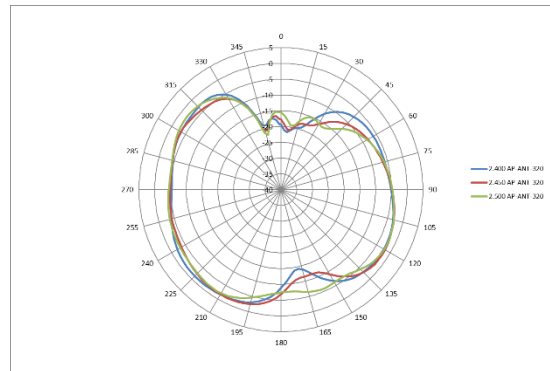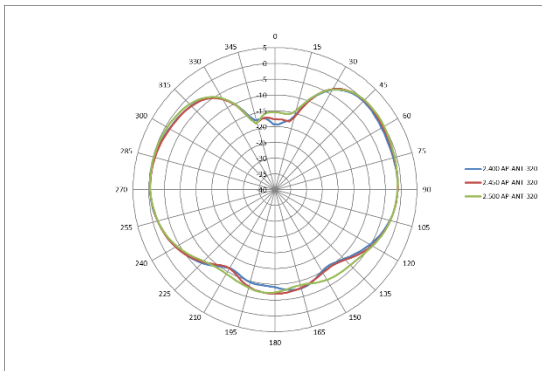- Antenna, mounting hardware and instruction manual included in unit carton

# Antenna patterns (typical for both antenna elements)

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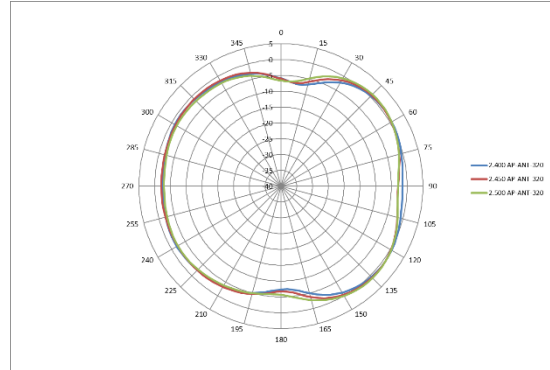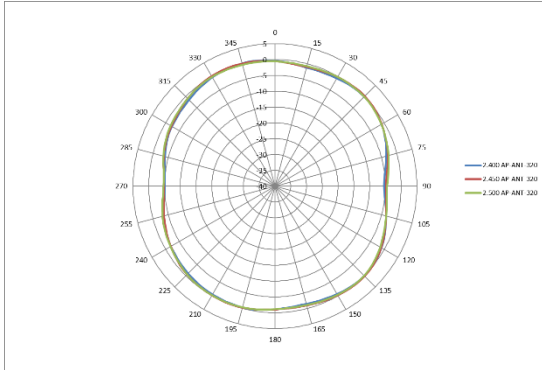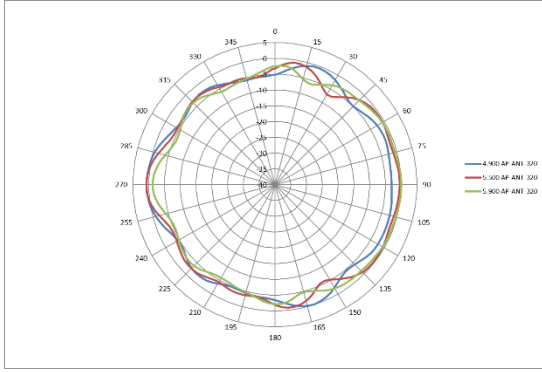


2.4GHz antenna patterns (horizontal)



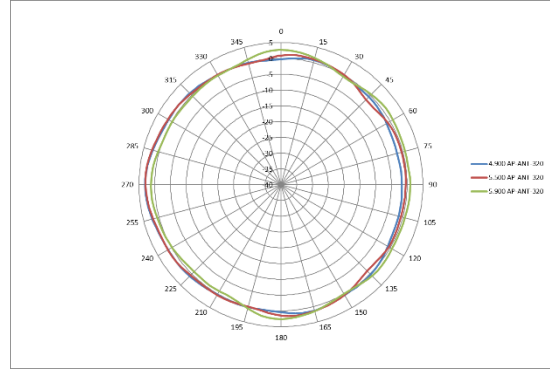2.4GHz Antenna patterns (40° downtilt horizontal)



2.4GHz antenna patterns (vertical/0)



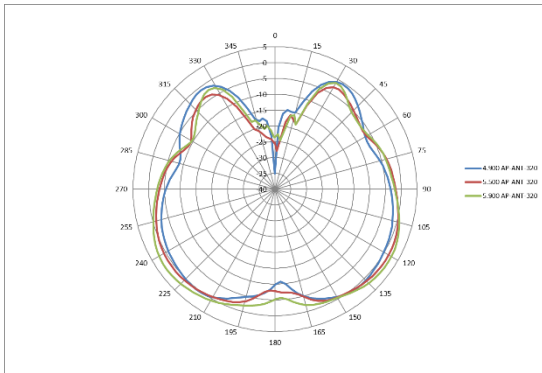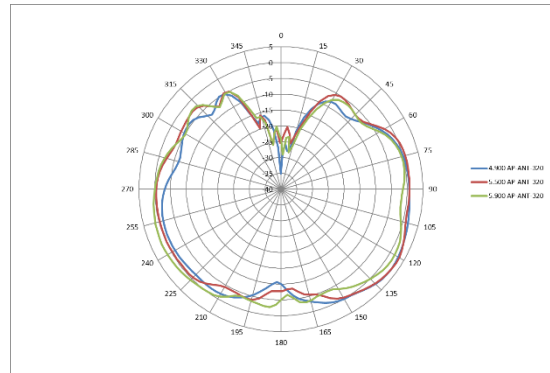2.4GHz antennas patterns (vertical/90)

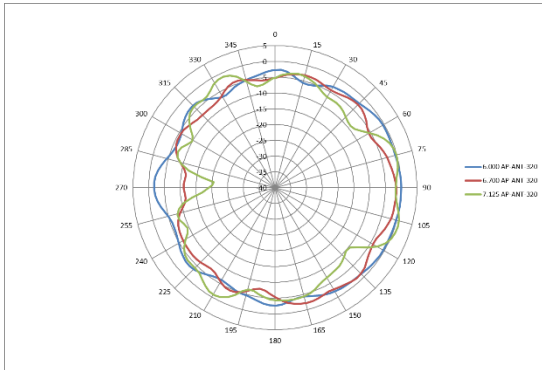5GHz antenna patterns (horizontal)
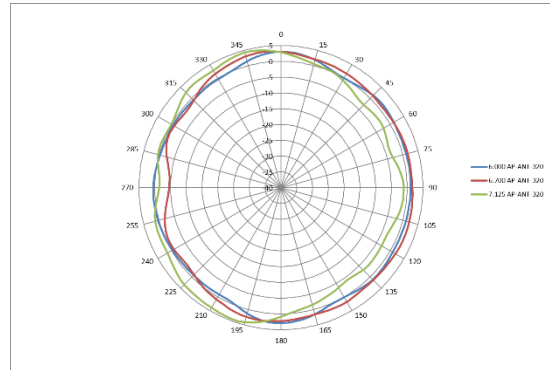
5GHz antenna patterns (40° downtilt horizontal)
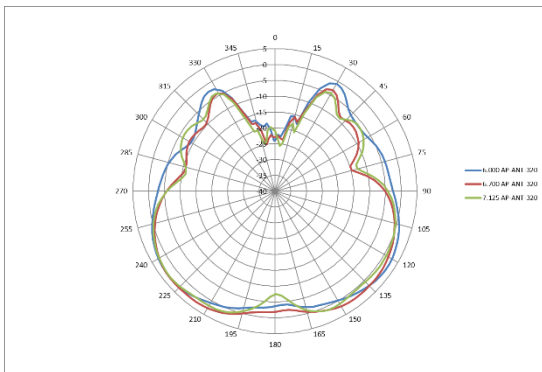
5GHz antenna patterns (vertical/0)

5GHz antennas patterns (vertical/90)

6GHz antenna patterns (horizontal)

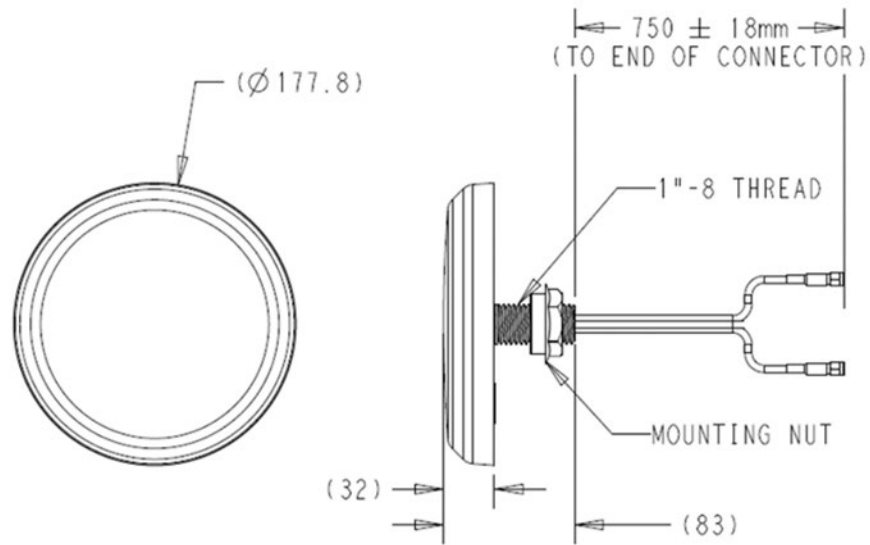6GHz antenna patterns (40° downtilt horizontal)

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 |