

DATA SHEET

ARUBA INDOOR/OUTDOOR MIMO ANTENNA

AP-ANT-25A

AP-ANT-25A is a dual polarized antenna with nominal 90° H x 90° V beamwidths. This antenna is well suited for 2.4 and 5 GHz sector coverage for access.

FREQUENCY/MINIMUM GAIN

- 4.9-6.0 GHz/5 dBi
- 2.4-2.5 GHz/5 dBi

DIMENSIONS

- 200 mm x 200 mm x 32 mm (7.9" x 7.9" x 1.25")

POLARIZATION

- Slant +/- 45°

WEIGHT

- .7 kg (1.54 lbs)

BEAMWIDTH

- Horizontal plane: 100°
- Vertical plane: 90°

HOUSING

- Housing: Aluminum
- Radome: Plastic

IMPEDANCE

- 50 ohms

PIGTAILS

- 75 cm (30") RP-SMA x2

MAXIMUM INPUT POWER

- 20 watts

OPERATING TEMPERATURE

- -45° C to +70° C



VSWR

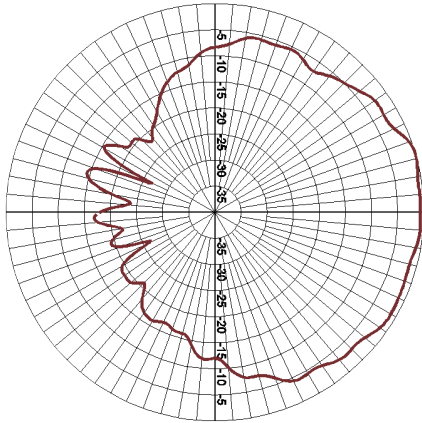
- 2:1 max

INSTALLATION HARDWARE

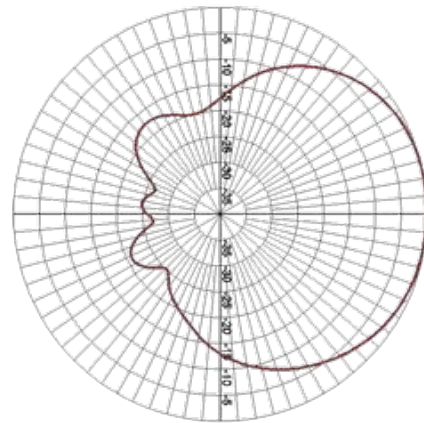
- Ships with wall anchors
- Azimuth/elevation mount kit for wall and pole sold separately as AP-ANT-MNT-3

ANTENNA PATTERN PLOTS

Vertical patterns

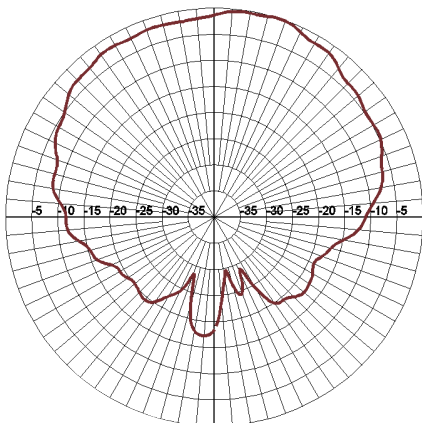


5 GHz

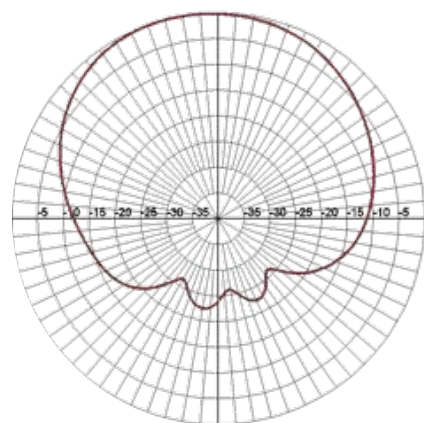


2.4 GHz

Horizontal patterns



5 GHz



2.4 GHz

DATA SHEET

ARUBA INDOOR/OUTDOOR MIMO ANTENNA

AP-ANT-28

AP-ANT-28 is a dual-polarized antenna with 60° H x 60° V beamwidths. This antenna is well suited for 2.4-GHz and 5-GHz sector coverage for Wi-Fi access.

FREQUENCY/MINIMUM GAIN

- 4.9-6.0 GHz/7.5 dBi min
- 2.4-2.5 GHz/7.5 dBi min

DIMENSIONS

- 197.5 mm x 197.5 mm x 34.5 mm (7.5" x 7.5" x 1.2")

POLARIZATION

- Slant +/- 45°

WEIGHT

- 489 g (1.1 lbs)

BEAMWIDTH

- Horizontal plane: 60°
- Vertical plane: 60°

HOUSING

- Housing: Aluminum
- Radome: Plastic

IMPEDANCE

- 50 ohms

PIGTAIL CABLES

- Terminated RP-SMA male 75 cm (30")

MAXIMUM INPUT POWER

- 6 watts

OPERATING TEMPERATURE

- -45° C to +65° C



VSWR

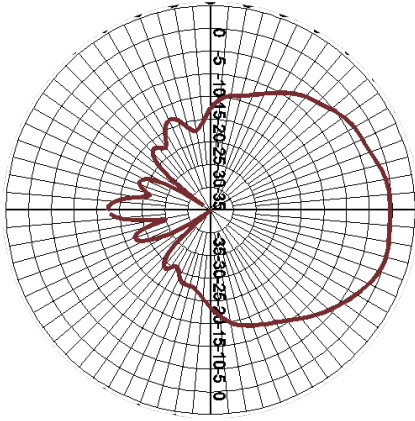
- 2:1 max

INSTALLATION HARDWARE

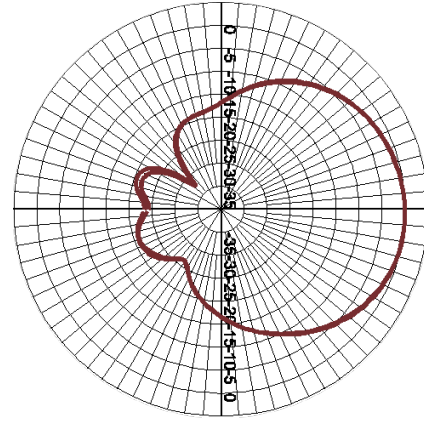
- Ships with wall anchors
- Azimuth/elevation mount kit for wall and pole sold separately as AP-ANT-MNT-3

ANTENNA PATTERN PLOTS

Vertical patterns

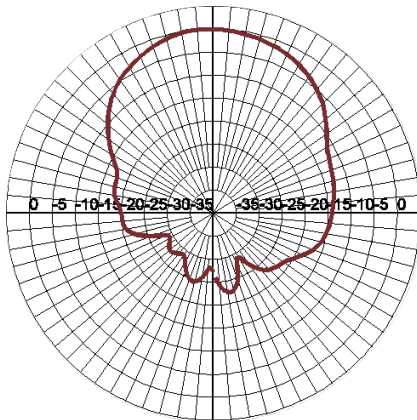


5 GHz

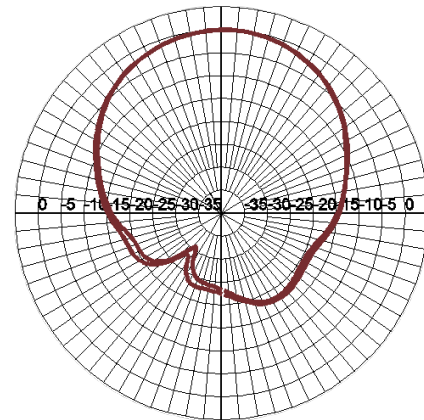


2.4 GHz

Horizontal patterns



5 GHz



2.4 GHz

DATA SHEET

ARUBA INDOOR MIMO ANTENNA

AP-ANT-32

AP-ANT-32 is a kit of three small downtilt omni antennas with nominal 360° H x 45° V beamwidths.

FREQUENCY/MINIMUM GAIN

- 4.9-6.0 GHz/4 dBi min
- 2.4-2.5 GHz/2 dBi min

DIMENSIONS

- 44.2 x 19.6 (dia.) mm
- 1.75 x 0.77 (dia.) inches

POLARIZATION

- Vertical

WEIGHT

- 30 g (0.065 lbs) per element, 3 total per kit

BEAMWIDTH

- Horizontal plane: 360°
- Vertical plane: 45°

IMPEDANCE

- 50 ohms

MAXIMUM INPUT POWER

- 20 watts

OPERATING TEMPERATURE

- -40° C to +65° C

VSWR

- 2:1 max

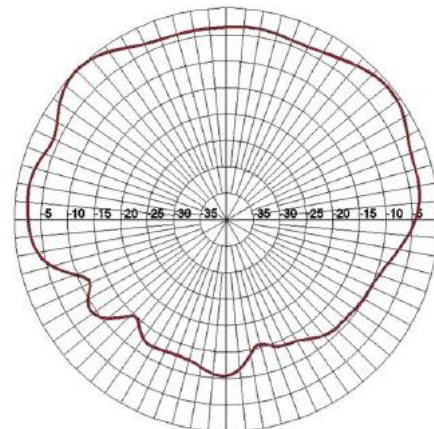
INSTALLATION HARDWARE

- None: Designed for direct attach to AP

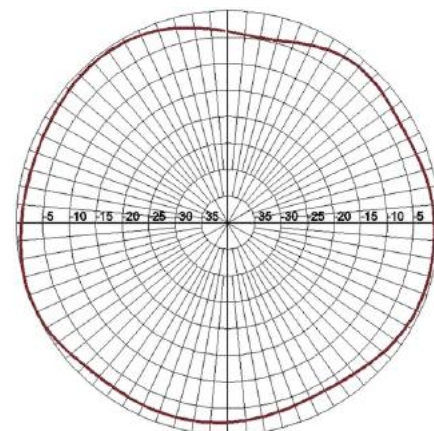


ANTENNA PATTERN PLOTS

Vertical pattern



Horizontal pattern



DATA SHEET

ARUBA INDOOR/OUTDOOR MIMO ANTENNA

AP-ANT-35A

AP-ANT-35A is a multi polarized antenna with nominal 90° H x 90° V beamwidths. This antenna is well suited for 2.4 and 5 GHz sector coverage for access.

FREQUENCY/MINIMUM GAIN

- 4.9-6.0 GHz/5 dBi
- 2.4-2.5 GHz/5 dBi

DIMENSIONS

- 200 mm x 200 mm x 32 mm (7.9" x 7.9" x 1.25")

POLARIZATION

- Slant +/- 45°

WEIGHT

- .75 kg (1.65 lbs)

BEAMWIDTH

- Horizontal plane: 100°
- Vertical plane: 90°

HOUSING

- Housing: Aluminum
- Radome: Plastic

IMPEDANCE

- 50 ohms

PIGTAILS

- 75 cm (30") RP-SMA x3

MAXIMUM INPUT POWER

- 20 watts

OPERATING TEMPERATURE

- -45° C to +70° C



VSWR

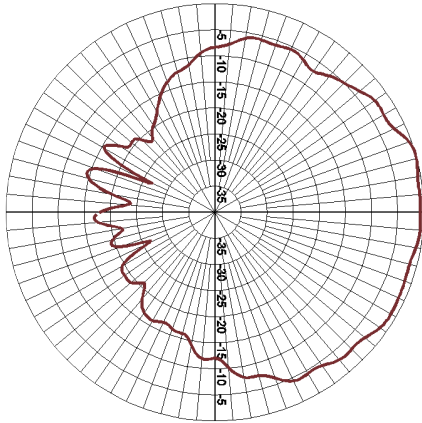
- 2:1 max

INSTALLATION HARDWARE

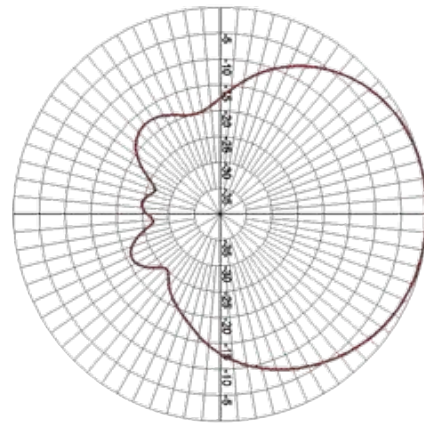
- Ships with wall anchors
- Azimuth/elevation mount kit for wall and pole sold separately as AP-ANT-MNT-3

ANTENNA PATTERN PLOTS

Vertical patterns

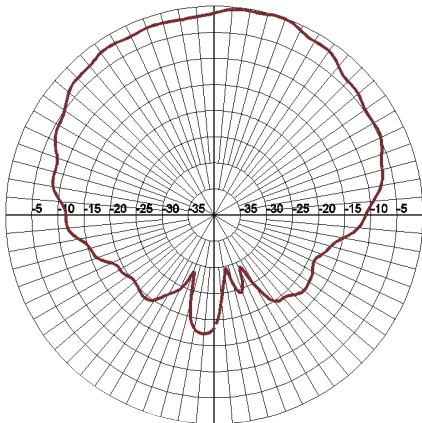


5 GHz

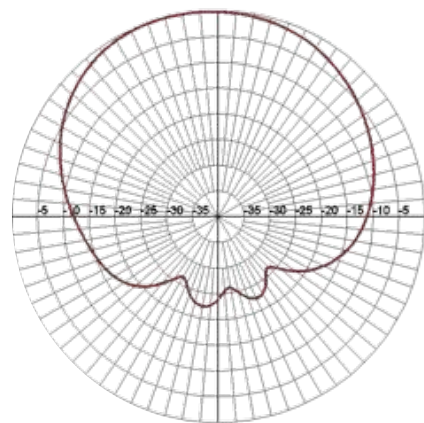


2.4 GHz

Horizontal patterns



5 GHz



2.4 GHz

DATA SHEET

ARUBA INDOOR/OUTDOOR MIMO ANTENNA

AP-ANT-38

AP-ANT-38 is a multipolarized antenna with 60° H x 60° V beamwidths. This antenna is well suited for 2.4-GHz and 5-GHz sector coverage for Wi-Fi access.

FREQUENCY/MINIMUM GAIN

- 4.9-6.0 GHz/7.5 dBi min
- 2.4-2.5 GHz/7.5 dBi min

DIMENSIONS

- 197.5 mm x 197.5 mm x 34.5 mm (7.5" x 7.5" x 1.2")

POLARIZATION

- V, and Slant +/- 45°

WEIGHT

- 548 g (1.2 lbs)

BEAMWIDTH

- Horizontal plane: 60°
- Vertical plane: 60°

HOUSING

- Housing: Aluminum
- Radome: Plastic

IMPEDANCE

- 50 ohms

PIGTAILS

- 75 cm (30") RP-SMA x3

MAXIMUM INPUT POWER

- 6 watts

OPERATING TEMPERATURE

- -45° C to +65° C



VSWR

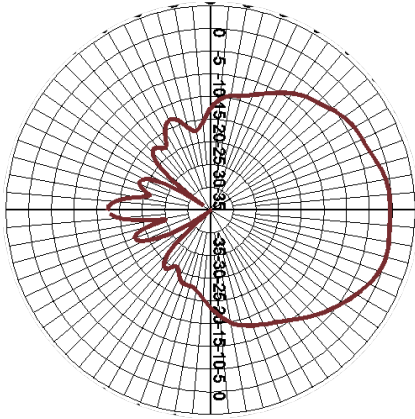
- 2:1 max

INSTALLATION HARDWARE

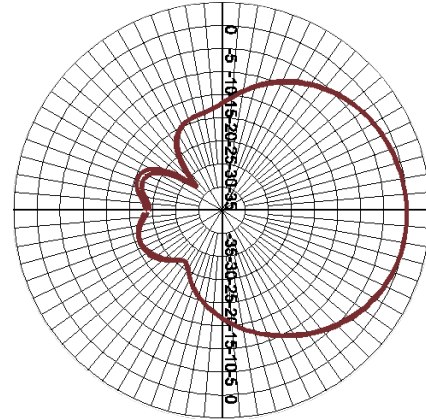
- Ships with wall anchors
- Azimuth/elevation mount kit for wall and pole sold separately as AP-ANT-MNT-3

ANTENNA PATTERN PLOTS

Vertical patterns

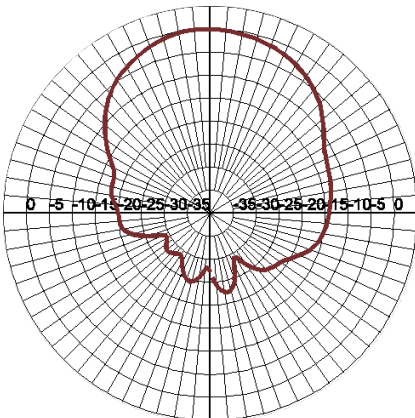


5 GHz

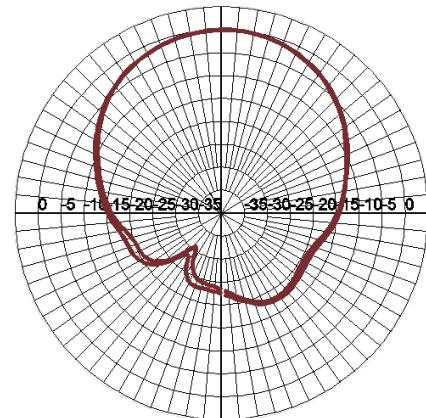


2.4 GHz

Horizontal patterns



5 GHz



2.4 GHz

DATA SHEET

ARUBA AP-ANT-40 INDOOR 4X4 MIMO ANTENNA

Dual-Band downtilt omnidirectional ceiling-mount antenna

AP-ANT-40 is a dual band 4-element omni-directional antenna for use in Wi-Fi MIMO applications. Housed in a compact, low-profile and discrete plastic enclosure, the antenna can be mounted to a variety of ceilings. Each of the four MIMO antenna elements is connected to the Aruba Access Point via a low-loss, plenum rated coaxial pigtail.

The radiation patterns are uniform and symmetrical, providing high level signal density into defined coverage zones, and optimum coverage conditions for MIMO performance.

FREQUENCY RANGE AND GAIN

- 2,400 – 2,500 MHz 4dBi
- 4,900 – 6,000 MHz 5dBi

POLARIZATION

- Linear, vertical

BEAMWIDTH

- H-plane: omni-directional
- E-plane: approximately 100 degrees (40 degrees down-tilt)

IMPEDANCE

- 50 Ohms

MAXIMUM INPUT POWER

- 10 Watts

VSWR

- < 2.0:1

PIGTAIL CABLE

- Length: 750 mm
- Cable type: RG58, plenum rated
- Connector: RP-SMA male (4x)

DIMENSIONS

- 178 mm (diameter) x 32 mm (height)



WEIGHT

- Approximately 410 g

HOUSING MATERIAL

- Radome: PC/ABS UL94-V0 (white)

OPERATING TEMPERATURE

- -30° C to +70° C (-22° F to +158° F)

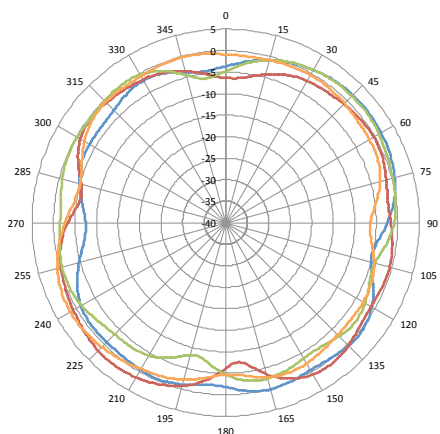
INSTALLATION HARDWARE

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.

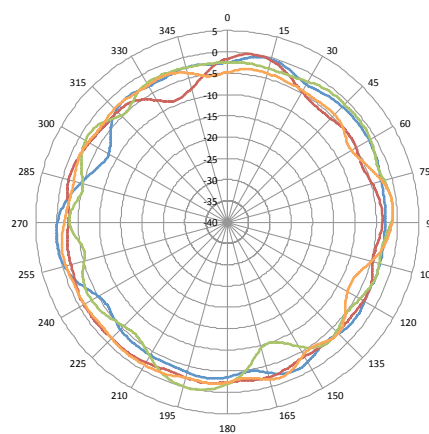
Alternatively, the antenna can be attached directly to a solid wall or ceiling surface using additional hardware supplied with the antenna.

GAIN PATTERNS

Horizontal or Azimuth plane (top view)

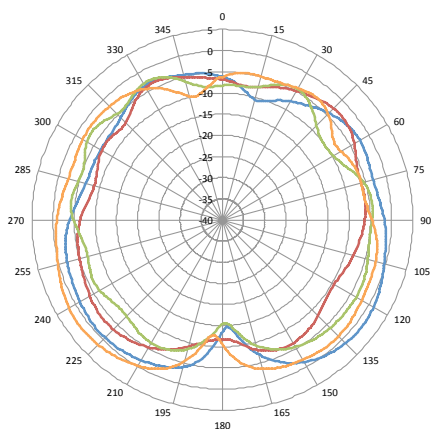


2,400 MHz

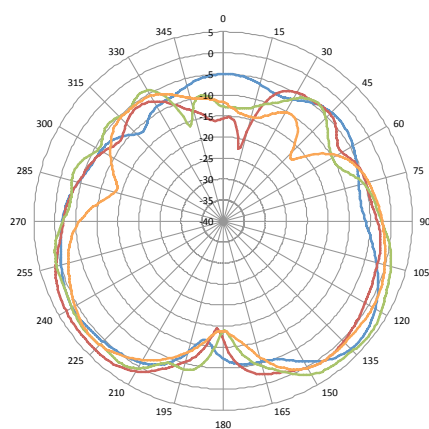


5,500 MHz

Elevation plane (side view)



2,400 MHz



5,500 MHz

ORDERING INFORMATION

Part Number	Description
AP-ANT-40	Dual band, 4dBi, 4 element MIMO downtilt omni antenna, ceiling mount. RP-SMA

DATA SHEET

ARUBA OUTDOOR 4X4 MIMO ANTENNA

AP-ANT-48

AP-ANT-48 is a multi-polarized antenna with nominal 60° H x 60° V beamwidths. This antenna is well suited for 2.4 and 5 GHz sector coverage for access.

FREQUENCY/NOMINAL GAIN

- 4.9-6.0 GHz/8.5 dBi min
- 2.4-2.5 GHz/8.5 dBi min

DIMENSIONS

- 190 mm x 190 mm x 44 mm (Excluding wall mount flanges)

POLARIZATION

- +/- 45°
- +/- 135°

WEIGHT

- 700 g

BEAMWIDTH

- Horizontal plane: 70° @ 2.4 GHz
Vertical plane: 70° @ 2.4 GHz
- Horizontal plane: 56° @ 5.x GHz
Vertical plane: 56° @ 5.x GHz

HOUSING

- Housing: Aluminum
- Radome: Plastic

IMPEDANCE

- 50 ohms

CONNECTION

- 30 cm RPSMA terminated pigtails

MAXIMUM INPUT POWER

- 6 watts

OPERATING TEMPERATURE

- -45° C to +65° C

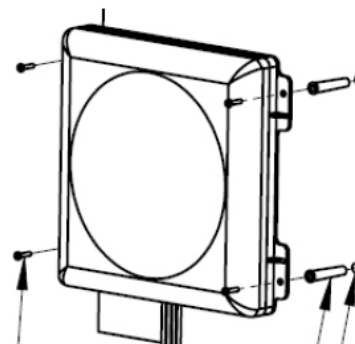


VSWR

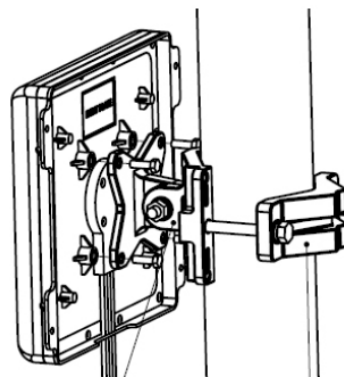
- 2:1 max

INSTALLATION HARDWARE

- Mount kit for wall and pole included.



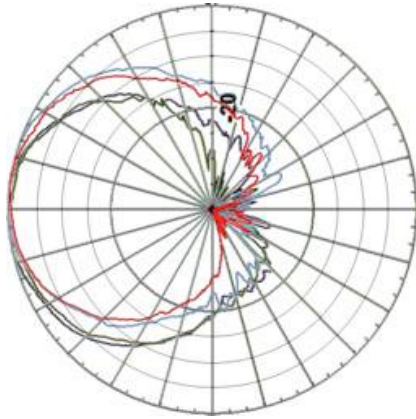
Wall mount



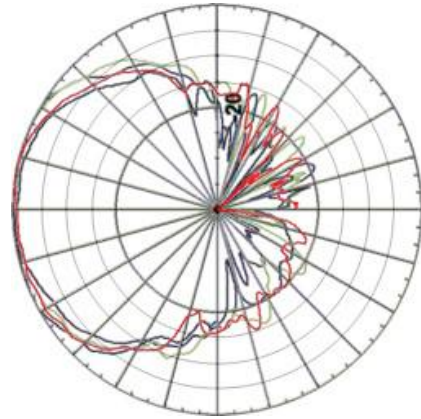
With Pole Mount Kit

ANTENNA PATTERN PLOTS

Vertical patterns

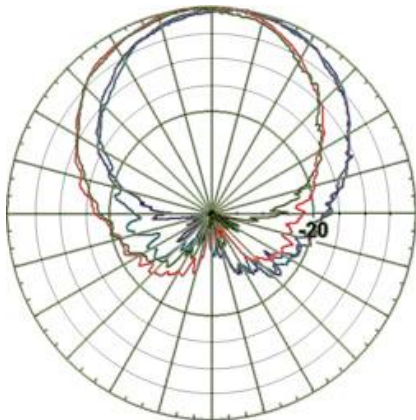


5.x GHz

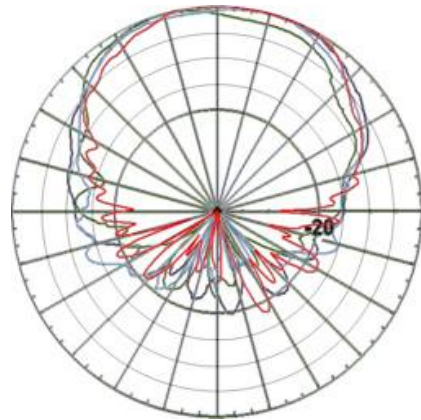


2.4 GHz

Horizontal patterns



5.x GHz



2.4 GHz