

4C6U6VX065X12Fwxyz5

Features

- Unique high port count panel antenna for 4G/5G small cell applications
- 32 total connectors to service the 696-960, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or 4x4 MIMO deployments
- Fixed tilt options



| PRODUCT OVERVIEW | Frequency Range (MHz) | (4x) 696-960 | (6x) 1695-2700 | (6x) 3300-4200 |
|------------------|--|--|--|--|
| | Array | <div> <div>R1, R2</div> <div>R3, R4</div> </div> | <div> <div>Y1, Y2, Y3</div> <div>Y4, Y5, Y6</div> </div> | <div> <div>P1, P2, P3</div> <div>P4, P5, P6</div> </div> |
| | Connector | 8 PORTS | 12 PORTS | 12 PORTS |
| | Polarization | XPOL | XPOL | XPOL |
| | Azimuth Beamwidth (avg) | 65° | 65° | 65° |
| | Electrical Downtilt | 0° | 2°, 4°, 6° | 2°, 4°, 6° |
| | Maximum Continuous Power Per Port @ 50° C (122° F) | 200 WATTS | 100 WATTS | 100 WATTS |
| | Maximum Total Continuous Power at 50° C (122° F) | 4000 WATTS | | |
| | Total Connector Count | 32 PORTS | | |
| | Connector Type | 4.3.-10 FEMALE | 2.2-5 FEMALE | 2.2-5 FEMALE |
| | Dimensions | 1219 x 527 x 222 mm (48.0 x 20.7 x 8.7) | | |
| | Radome Color Options | GREY | | |

ELECTRICAL SPECIFICATIONS

■ R1 ■ R2 ■ R3 ■ R4

| Frequency Range | | MHz | (4x) 696-960 | |
|---|-----------|---------|--------------------------------------|---------------|
| Frequency Sub-Range | | MHz | 696-806 | 806-960 |
| Polarization | | --- | (4x) ±45° | |
| Gain | BASTA | dBi | 8.1 ± 0.9 | 8.3 ± 1.0 |
| | MAX | dBi | 9.0 | 9.3 |
| Azimuth Beamwidth (3 dB) | | degrees | 75.7° ± 9.0° | 75.4° ± 8.7° |
| Elevation Beamwidth (3 dB) | | degrees | 77.9° ± 14.6° | 62.8° ± 19.6° |
| Electrical Downtilt | | degrees | (w) 0° | |
| Impedance | | Ohms | 50Ω | |
| VSWR | | --- | 1.5:1 | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | | dBc | < -153 | |
| Upper Sidelobe Suppression | | dB | N/A | |
| Isolation | Intraband | dB | > 25 | |
| | Interband | dB | > 28 same band; > 30 different bands | |

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ELECTRICAL SPECIFICATIONS

Y1 Y2 Y3 Y4 Y5 Y6

| | | | | | | |
|--|-----------|---------|--------------------------------------|--------------|--------------|---------------|
| Frequency Range | | MHz | (6x) 1695-2700 | | | |
| Frequency Sub-Range | | MHz | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2700 |
| Polarization | | --- | (6x) ±45° | | | |
| Gain | BASTA | dBi | 11.5 ± 1.0 | 11.8 ± 0.9 | 11.9 ± 1.1 | 12.5 ± 1.2 |
| | MAX | dBi | 12.5 | 12.7 | 13.0 | 13.7 |
| Azimuth Beamwidth (3 dB) | | degrees | 69.4° ± 8.3° | 67.9° ± 7.9° | 67.6° ± 8.0° | 68.0° ± 12.2° |
| Elevation Beamwidth (3 dB) | | degrees | 26.4° ± 3.1° | 24.2° ± 2.1° | 23.1° ± 2.9° | 19.3° ± 2.6° |
| Electrical Downtilt | | degrees | (x) 2°, 4°, 6° | | | |
| Impedance | | Ohms | 50Ω | | | |
| VSWR | | --- | 1.5:1 | | | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | | dBc | < -153 | | | |
| Upper Sidelobe Suppression | | dB | N/A | | | |
| Isolation | Intraband | dB | > 25 | | | |
| | Interband | dB | > 28 same band; > 30 different bands | | | |

ELECTRICAL SPECIFICATIONS

P1 P2 P3 P4 P5 P6

| | | | | | |
|--|-----------|---------|--------------------------------------|---------------|---------------|
| Frequency Range | | MHz | (6x) 3300-4200 | | |
| Frequency Sub-Range | | MHz | 3300-3550 | 3550-3700 | 3700-4200 |
| Polarization | | --- | (6x) ±45° | | |
| Gain | BASTA | dBi | 13.1 ± 0.8 | 13.6 ± 0.7 | 14.6 ± 0.8 |
| | MAX | dBi | 13.9 | 14.3 | 15.4 |
| Azimuth Beamwidth (3 dB) | | degrees | 67.7° ± 13.4° | 68.6° ± 10.3° | 71.9° ± 11.9° |
| Elevation Beamwidth (3 dB) | | degrees | 14.6° ± 0.9° | 13.2° ± 1.0° | 12.7° ± 1.1° |
| Electrical Downtilt | | degrees | (y) 2°, 4°, 6° | | |
| Impedance | | Ohms | 50Ω | | |
| VSWR | | --- | 1.5:1 | | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | | dBc | < -153 | | |
| Upper Sidelobe Suppression | | dB | N/A | | |
| Isolation | Intraband | dB | > 25 | | |
| | Interband | dB | > 28 same band; > 30 different bands | | |

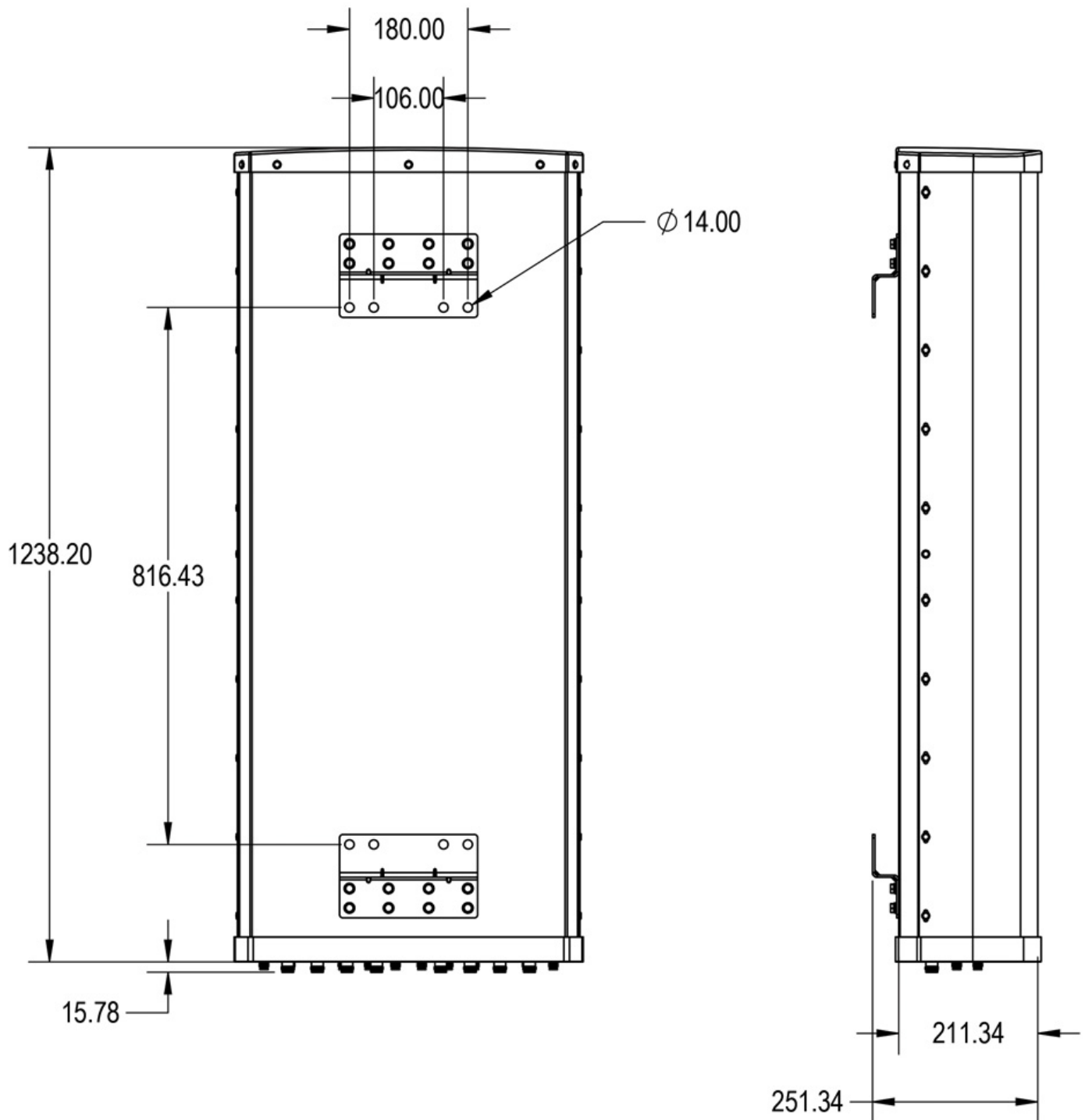
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MECHANICAL SPECIFICATIONS

| | | | |
|---------------------------------------|-------------|------------|--|
| Antenna | Length | mm (in) | 1219 (48.0) |
| | Width | mm (in) | 527 (20.7) |
| | Depth | mm (in) | 222 (8.7) |
| Net Weight - Antenna Only | | kg (lbs) | 18 (39) |
| Windload | Calculation | km/h (mph) | 160 (100) |
| | Frontal | N (lbf) | 480 (108) |
| | Side | N (lbf) | 285 (64) |
| Survival Wind Speed | | km/h (mph) | 241 (150) |
| Connector | Type | --- | 4.3-10 Female (low band) and 2.2-5 Female (mid and high bands) |
| | Quantity | --- | 32 |
| | Position | --- | Bottom |
| Radome Color | | --- | Grey |
| Operating Temperature | | degrees | -40 to +60 C (-40 to +140 F) |
| Lightning Protection (Grounding Type) | | --- | Direct Ground |

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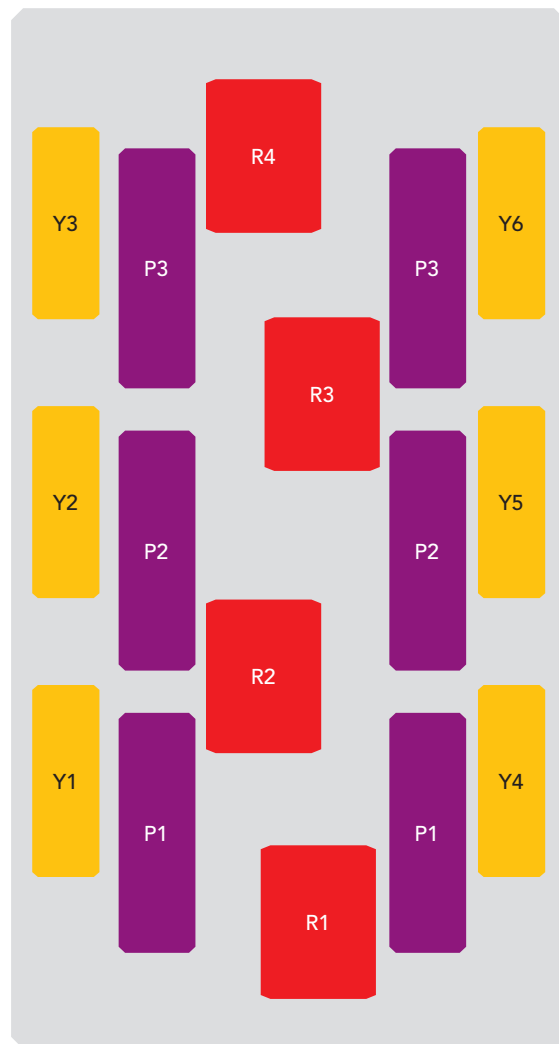


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ARRAY LAYOUT Topology

| FREQUENCY | ARRAY | CONNECTOR | CONNECTOR TYPE |
|---------------|--|-----------|--------------------|
| 696-960 MHz | ■ R1 | 1-2 | (2x) 4.3-10 Female |
| 696-960 MHz | ■ R2 | 3-4 | (2x) 4.3-10 Female |
| 696-960 MHz | ■ R3 | 5-6 | (2x) 4.3-10 Female |
| 696-960 MHz | ■ R4 | 7-8 | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y1 | 9-10 | (2x) 2.2-5 Female |
| 1695-2700 MHz | ■ Y2 | 11-12 | (2x) 2.2-5 Female |
| 1695-2700 MHz | ■ Y3 | 13-14 | (2x) 2.2-5 Female |
| 1695-2700 MHz | ■ Y4 | 15-16 | (2x) 2.2-5 Female |
| 1695-2700 MHz | ■ Y5 | 17-18 | (2x) 2.2-5 Female |
| 1695-2700 MHz | ■ Y6 | 19-20 | (2x) 2.2-5 Female |
| 3300-4200 MHz | ■ P1 | 21-22 | (2x) 2.2-5 Female |
| 3300-4200 MHz | ■ P2 | 23-24 | (2x) 2.2-5 Female |
| 3300-4200 MHz | ■ P3 | 25-26 | (2x) 2.2-5 Female |
| 3300-4200 MHz | ■ P4 | 27-28 | (2x) 2.2-5 Female |
| 3300-4200 MHz | ■ P5 | 29-30 | (2x) 2.2-5 Female |
| 3300-4200 MHz | ■ P6 | 31-32 | (2x) 2.2-5 Female |



The illustration is not shown to scale.

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BOTTOM VIEW - LABELING



MOUNTING KITS Select from the following mounting options when ordering.

| MODEL NUMBER | DESCRIPTION | FITS PIPE DIAMETER | WEIGHT |
|--------------|--|------------------------|-------------------|
| MKS10P01 | 2-POINT MOUNTING BRACKET KIT | 50-115 mm (2.0-4.5 in) | 4.8 kg (10.6 lbs) |
| MKS10T01 | 2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT | 50-115 mm (2.0-4.5 in) | 7.2 kg (15.8 lbs) |

INSTALLATION Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.

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HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

| NUMBER OF BANDS and OPERATING FREQUENCY | | | PATTERN TYPE | AZIMUTH BMWIDTH | POLARIZATION | LENGTH | TILT TYPE | TILT OPTIONS | CONNECTOR TYPE | VARIATION | ORDERING OPTION |
|---|-------------------|-------------------|------------------------|-----------------|--------------|------------|------------|---|---|--|--|
| 4C | 6U | 6V | X | 065 | X | 12 | F | wxy | c | 5 | -P -T |
| (4x) 696-960 | (6x) 1695-2700 | (6x) 3300-4200 | Standard Panel Antenna | 65° | XPOL | 1.2 meters | Fixed Tilt | <p>These letters are placeholders for fixed tilt options.</p> <p>Refer to Electrical Specifications for available tilt options.</p> | This antenna features a combination of 4.3-10 connectors (low band) and 2.2-5 connectors (mid and high bands) | 5th generation enhanced mechanical package | <p>To order the antenna and mounting kit together as one line item, add a -P for the 2-POINT MOUNTING BRACKET KIT (MKS10P01) or a -T for the 2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT (MKS10T01) to the end of the model number.</p> <p>If -P or -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket.</p> <p>Refer to the ordering options on the following page for further detail.</p> |

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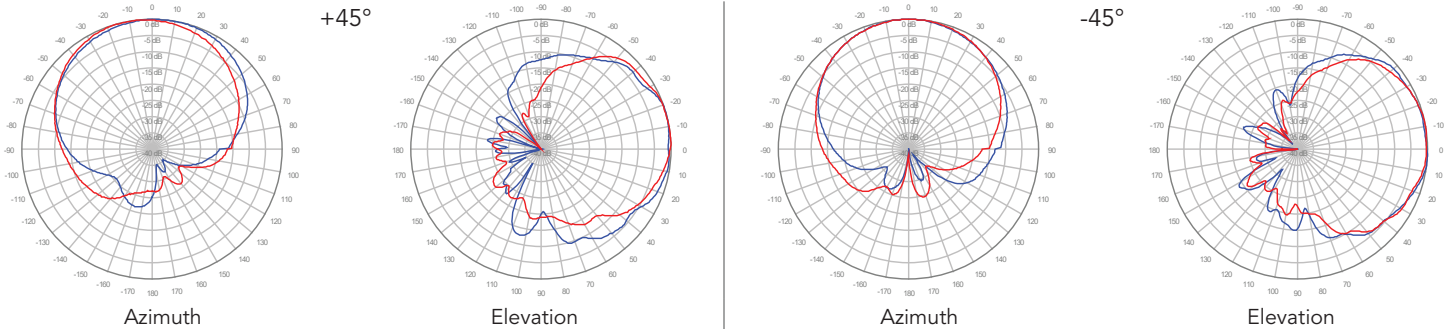
ORDERING OPTIONS Select from the following ordering options

| SELECT MOUNTING KIT | SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND | | | ORDER MODEL NUMBER |
|---|--|----------------------------|---------------|-----------------------|
| | 696-960 MHz | 1695-2700 MHz | 3300-4200 MHz | |
| ANTENNA ONLY - NO MOUNTING KIT | 0° | 2° | 2° | 4C6U6VX065X12F022c5 |
| | 0° | 4° | 4° | 4C6U6VX065X12F044c5 |
| | 0° | 6° | 6° | 4C6U6VX065X12F066c5 |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 2° | 4C6U6VX065X12F0A2c5 |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 2° | 4C6U6VX065X12F0B2c5 |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 2° | 4C6U6VX065X12F0C2c5 |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 4° | 4C6U6VX065X12F0A4c5 |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 4° | 4C6U6VX065X12F0B4c5 |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 4° | 4C6U6VX065X12F0C4c5 |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 6° | 4C6U6VX065X12F0A6c5 |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 6° | 4C6U6VX065X12F0B6c5 |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 6° | 4C6U6VX065X12F0C6c5 |
| ANTENNA WITH MKS10P01 MOUNTING KIT 2-Point Mounting Bracket Kit | 0° | 2° | 2° | 4C6U6VX065X12F022c5-P |
| | 0° | 4° | 4° | 4C6U6VX065X12F044c5-P |
| | 0° | 6° | 6° | 4C6U6VX065X12F066c5-P |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 2° | 4C6U6VX065X12F0A2c5-P |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 2° | 4C6U6VX065X12F0B2c5-P |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 2° | 4C6U6VX065X12F0C2c5-P |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 4° | 4C6U6VX065X12F0A4c5-P |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 4° | 4C6U6VX065X12F0B4c5-P |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 4° | 4C6U6VX065X12F0C4c5-P |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 6° | 4C6U6VX065X12F0A6c5-P |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 6° | 4C6U6VX065X12F0B6c5-P |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 6° | 4C6U6VX065X12F0C6c5-P |
| ANTENNA WITH MKS10T01 MOUNTING KIT 2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit | 0° | 2° | 2° | 4C6U6VX065X12F022c5-T |
| | 0° | 4° | 4° | 4C6U6VX065X12F044c5-T |
| | 0° | 6° | 6° | 4C6U6VX065X12F066c5-T |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 2° | 4C6U6VX065X12F0A2c5-T |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 2° | 4C6U6VX065X12F0B2c5-T |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 2° | 4C6U6VX065X12F0C2c5-T |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 4° | 4C6U6VX065X12F0A4c5-T |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 4° | 4C6U6VX065X12F0B4c5-T |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 4° | 4C6U6VX065X12F0C4c5-T |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 4° | 6° | 4C6U6VX065X12F0A6c5-T |
| | 0° | Y1 & Y2 = 2°; Y3 & Y4 = 6° | 6° | 4C6U6VX065X12F0B6c5-T |
| | 0° | Y1 & Y2 = 4°; Y3 & Y4 = 6° | 6° | 4C6U6VX065X12F0C6c5-T |

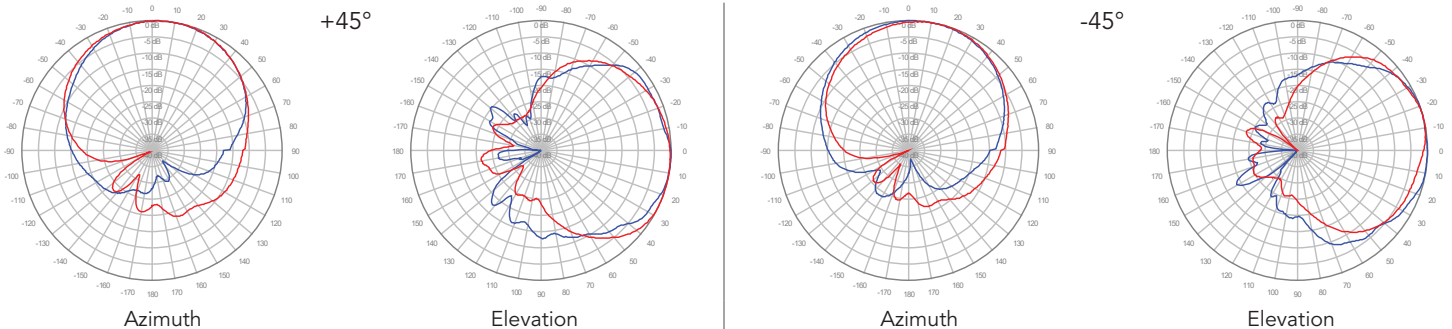
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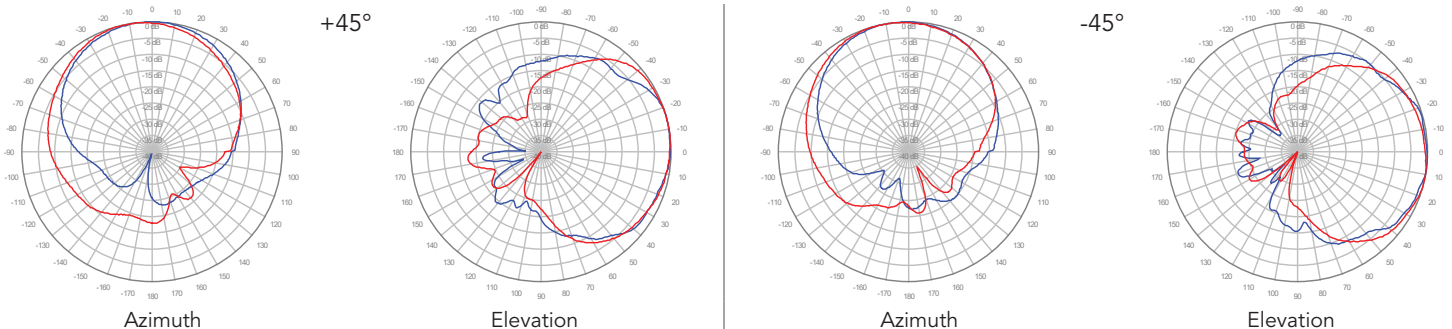
■ R1, 0° TILT



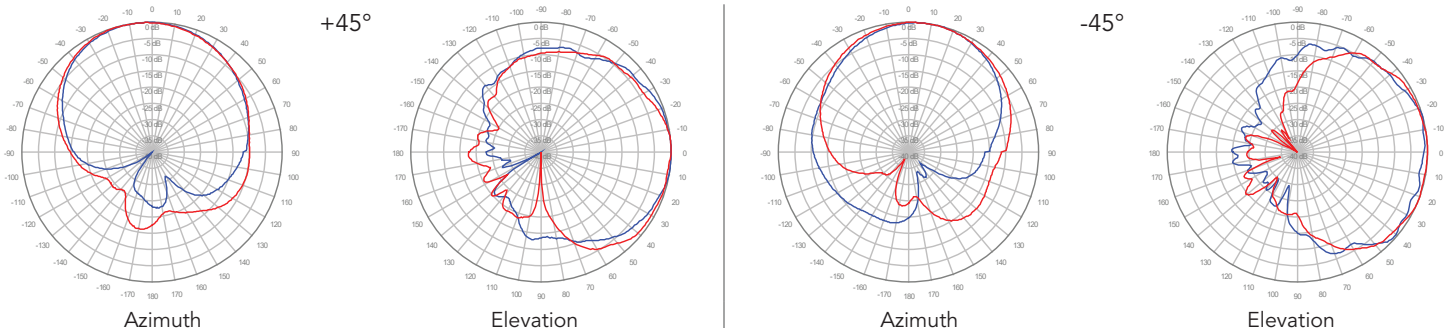
■ R2, 0° TILT



■ R3, 0° TILT



■ R4, 0° TILT

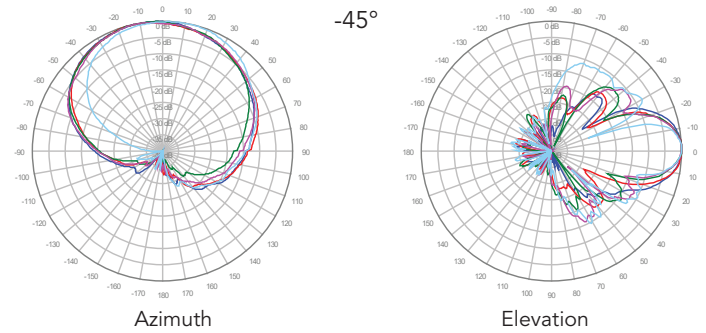
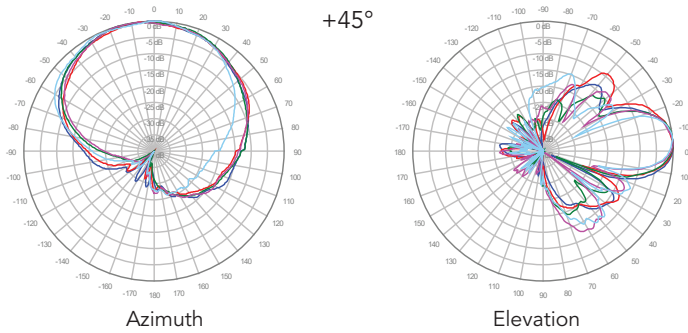


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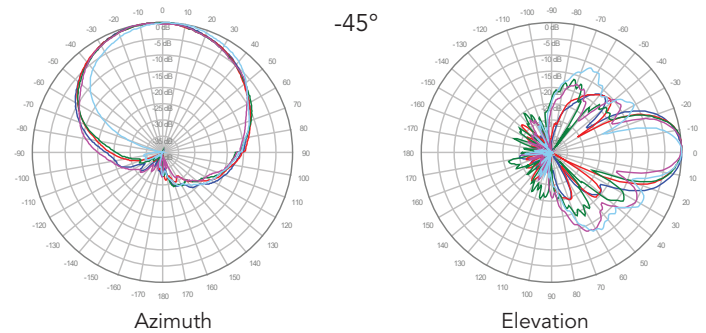
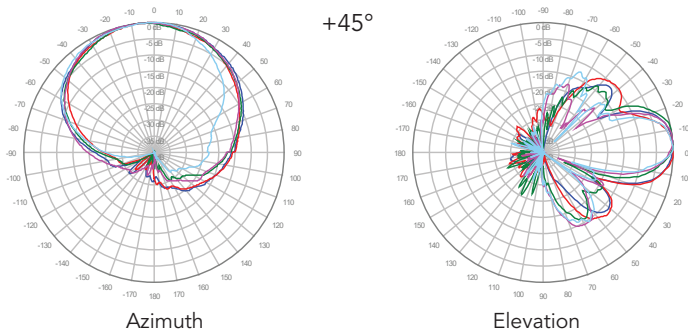
4C6U6VX065X12Fwxyc5

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

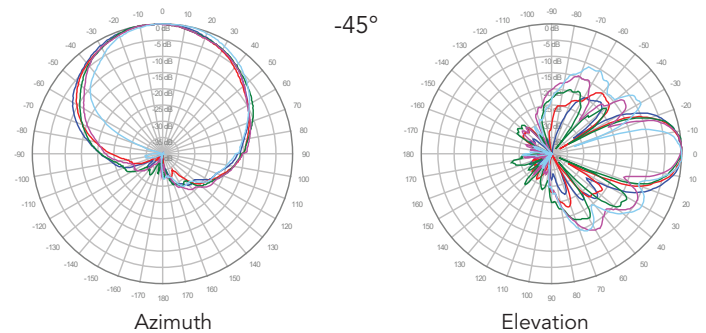
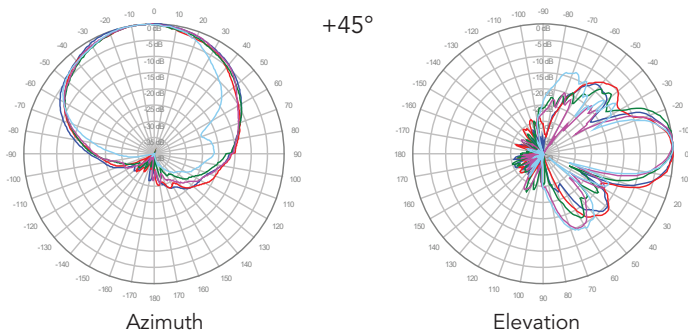
Y1, 2° TILT



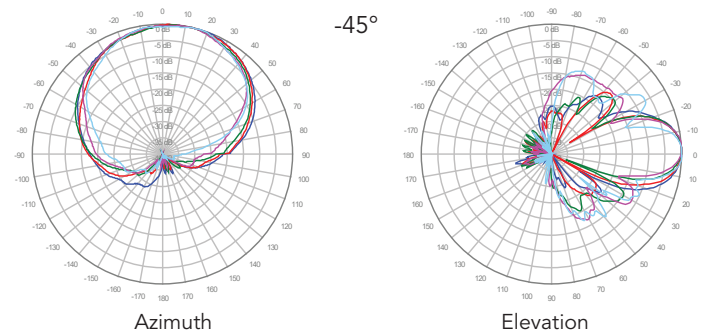
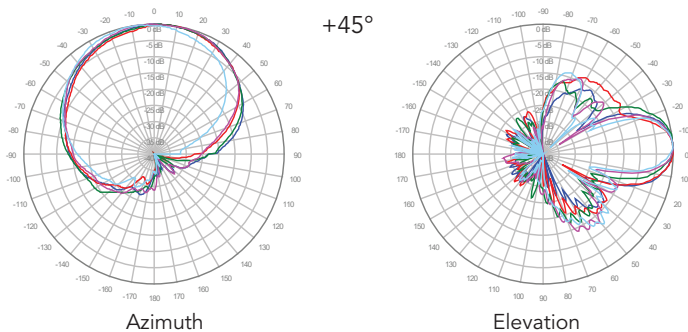
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

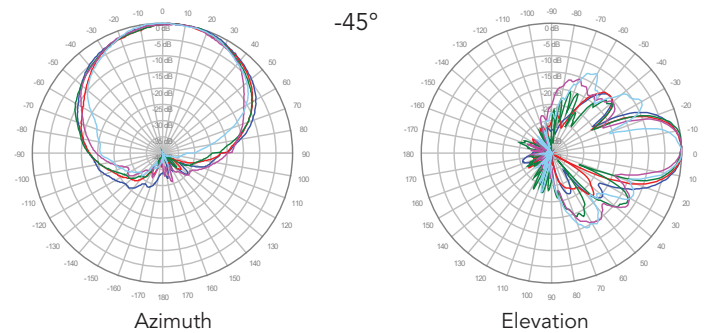
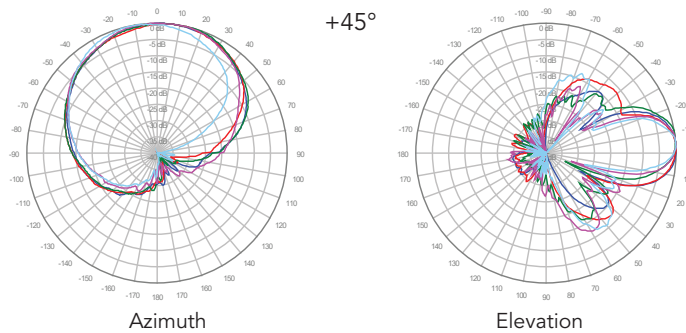


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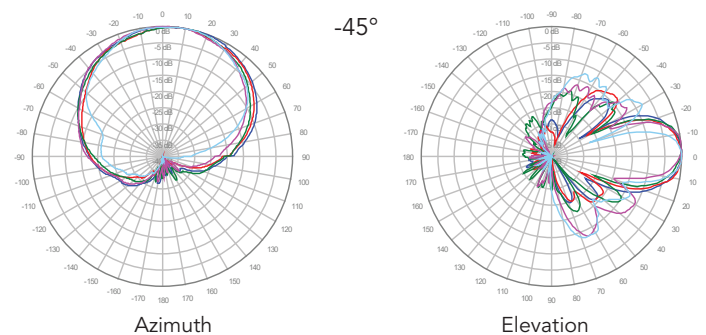
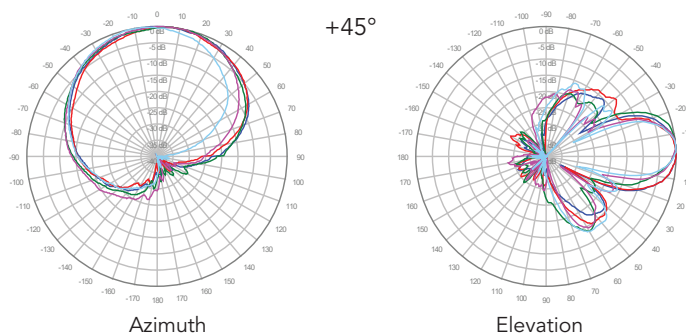
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1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

■ Y5, 2° TILT



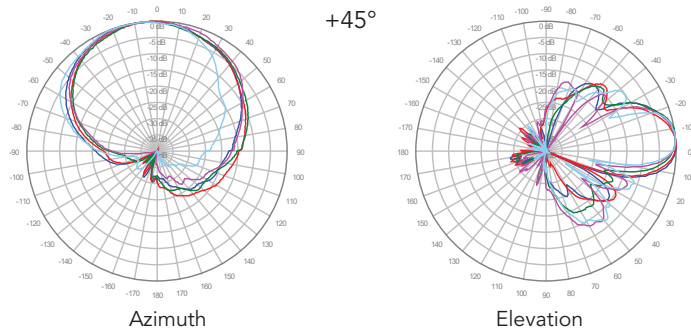
■ Y6, 2° TILT



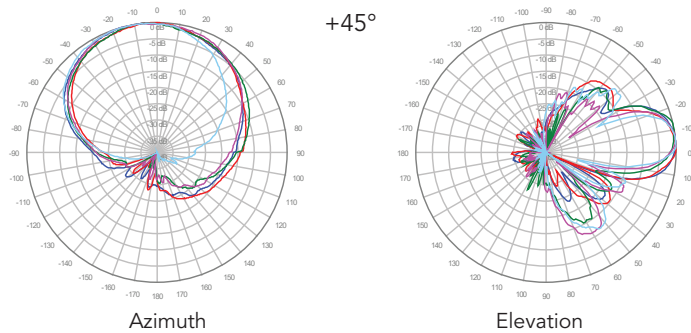
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1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

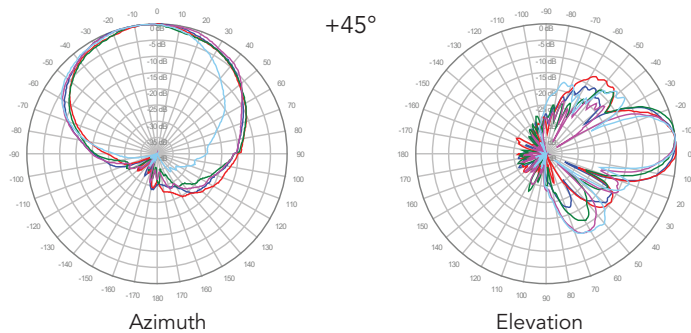
■ Y1, 4° TILT



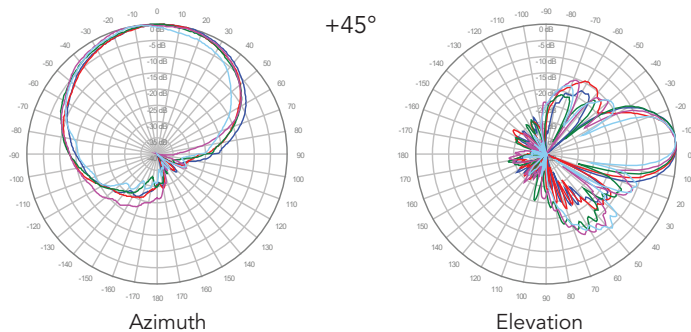
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

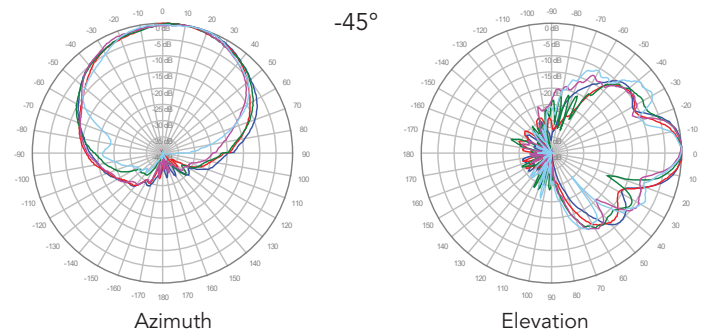
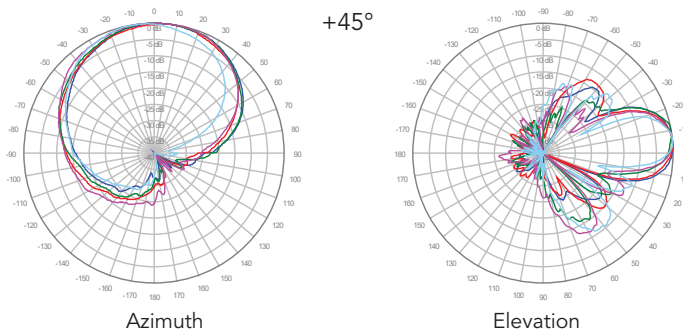


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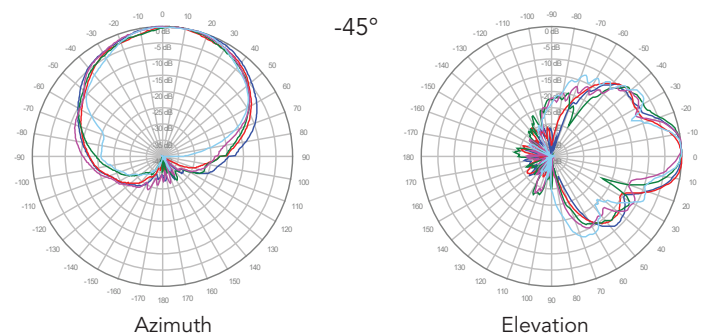
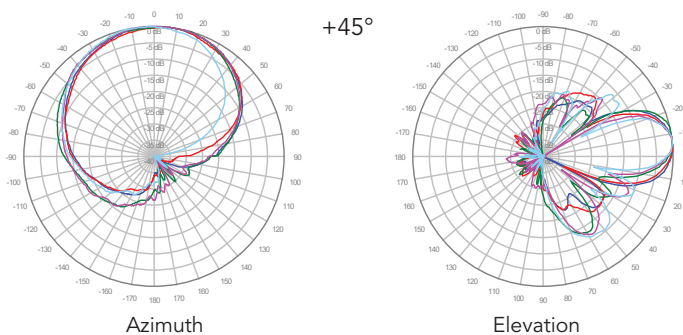
4C6U6VX065X12Fwxyz5

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

■ Y5, 4° TILT



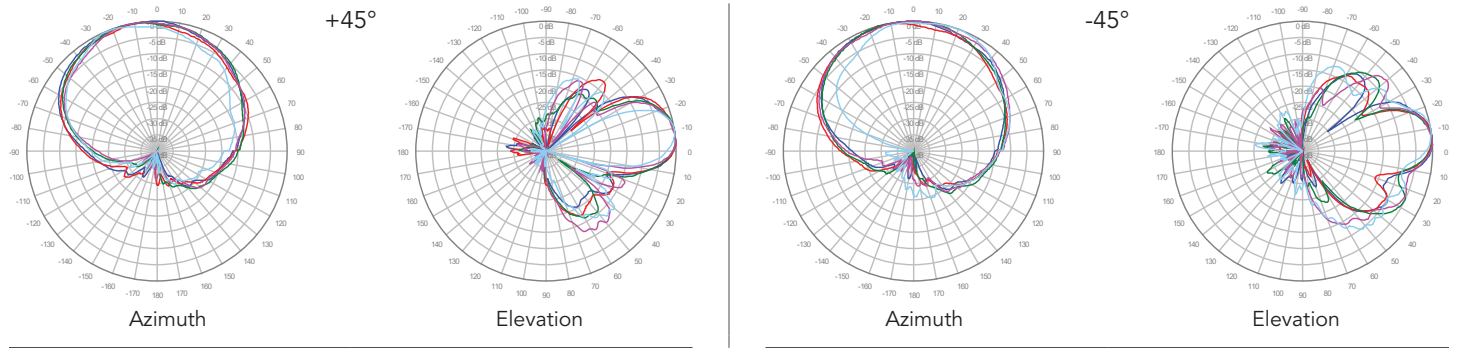
■ Y6, 4° TILT



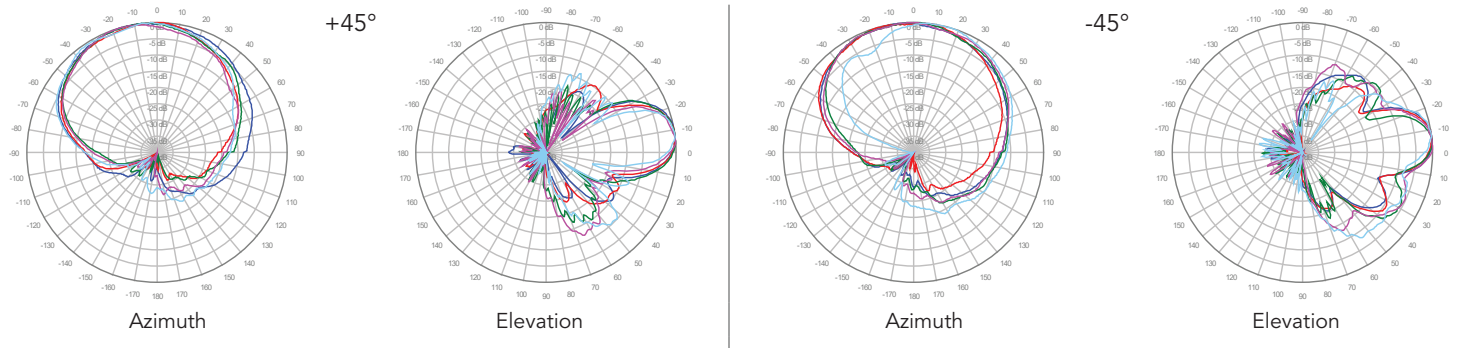
4C6U6VX065X12Fwxyc5

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

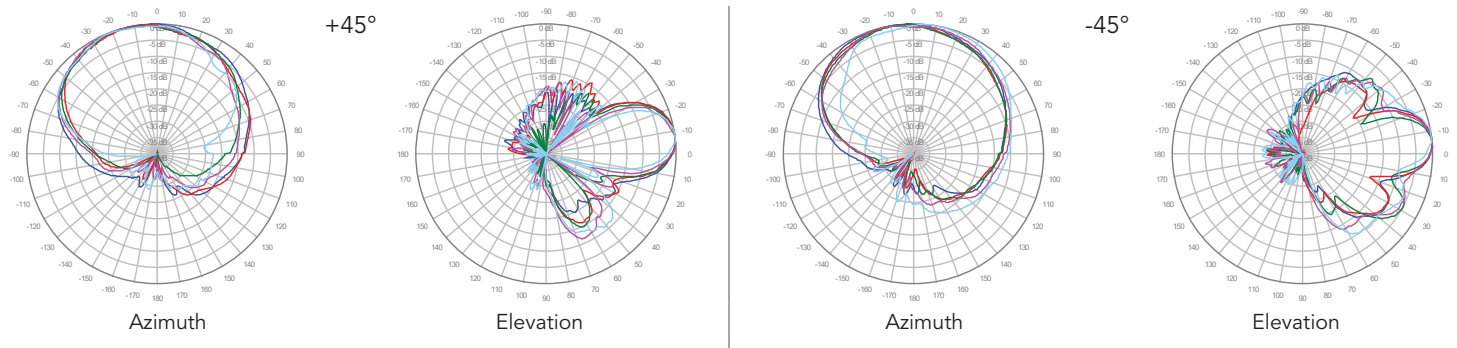
Y1, 6° TILT



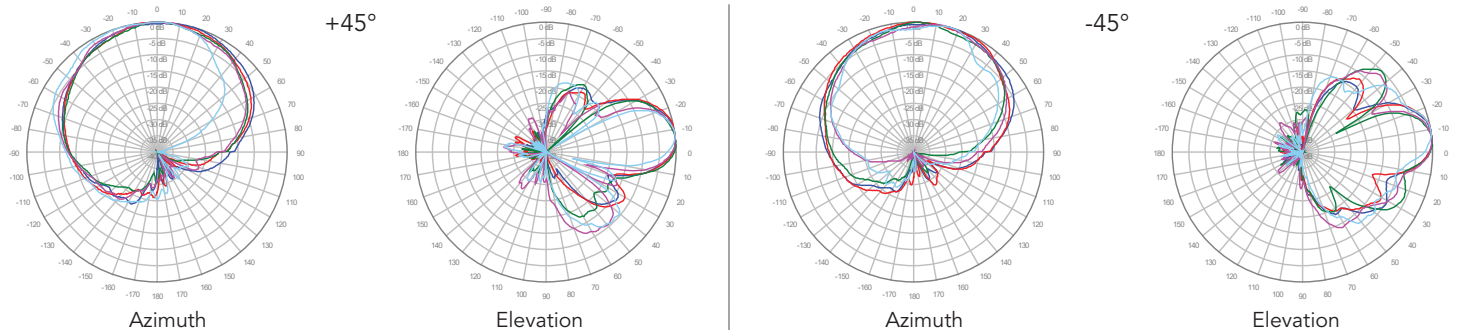
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT

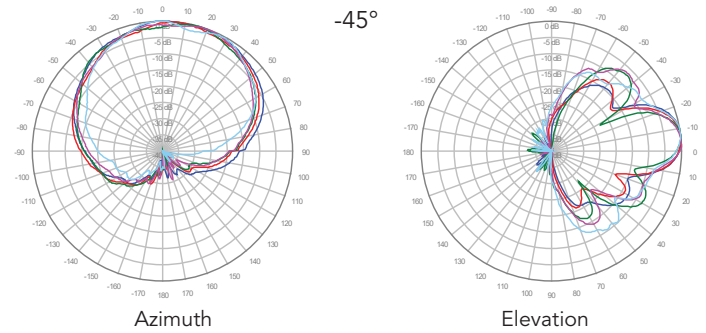
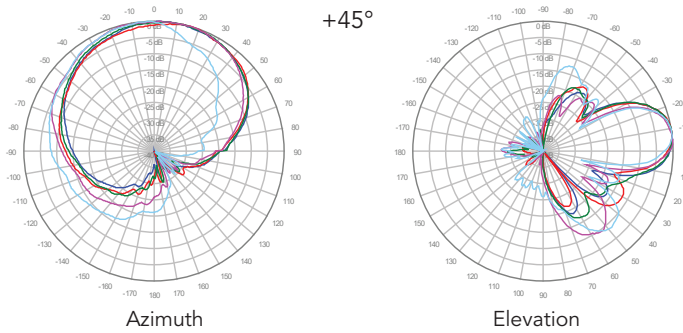


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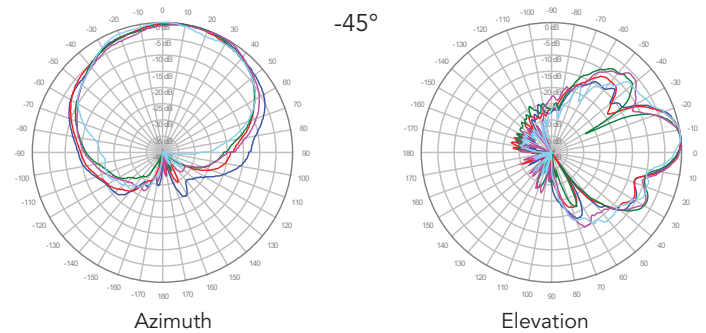
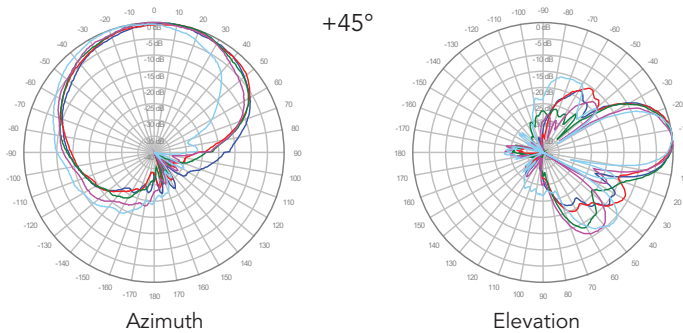
4C6U6VX065X12Fwxyz5

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

■ Y5, 6° TILT



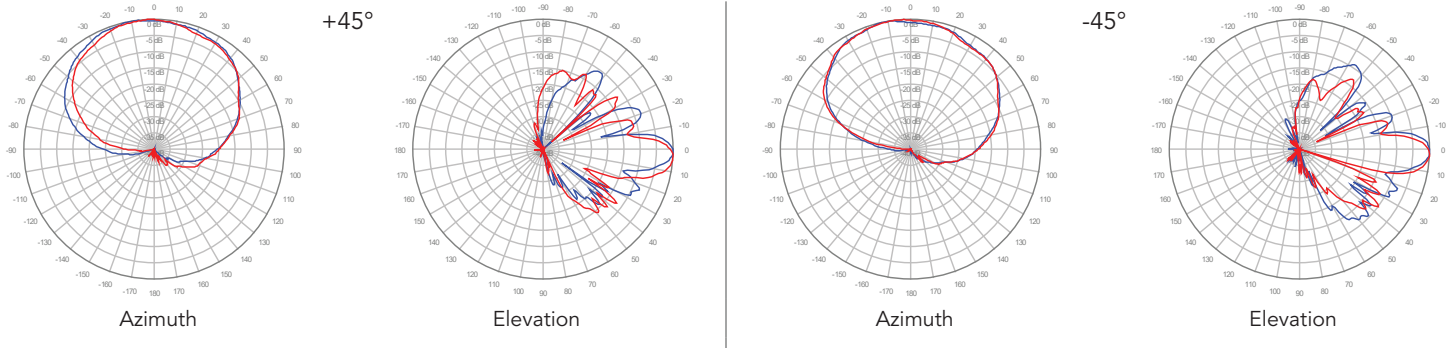
■ Y6, 6° TILT



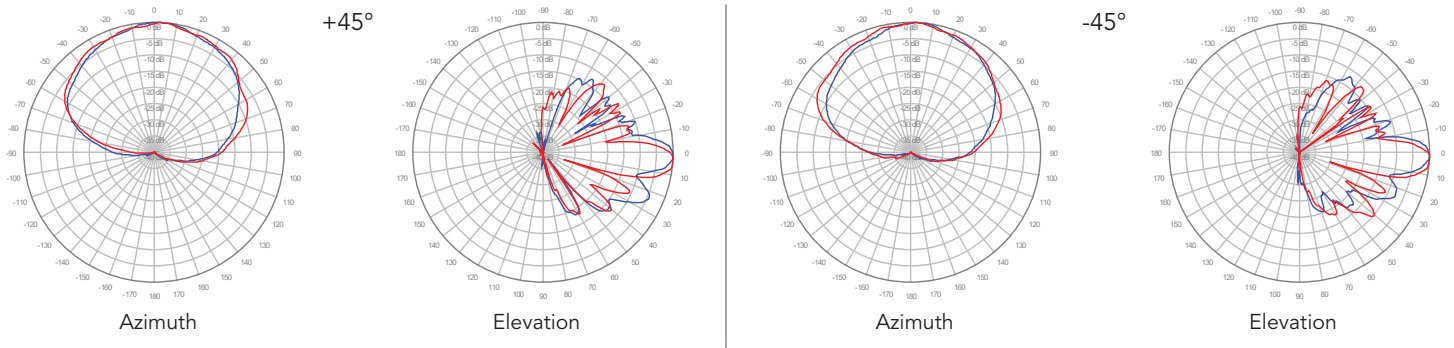
4C6U6VX065X12Fwxyz5

3600 MHz ————
4000 MHz ————

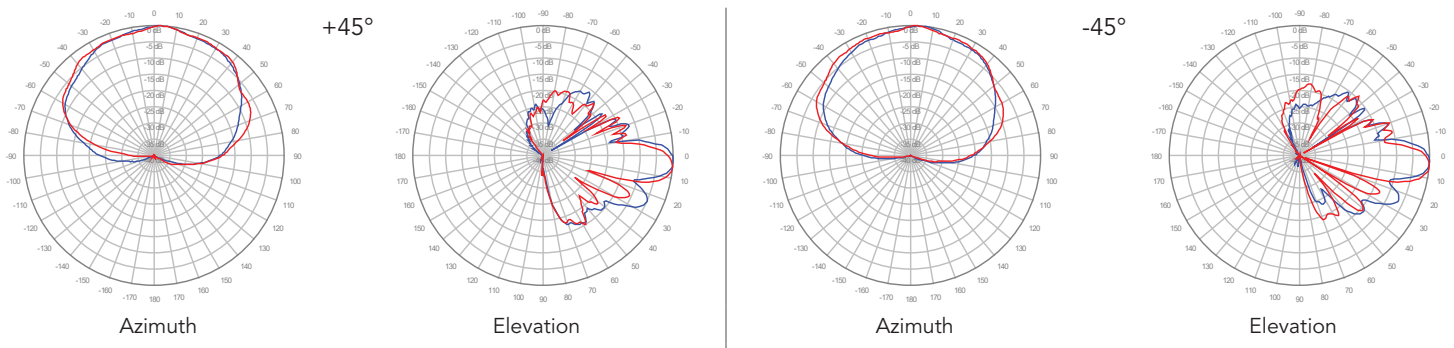
P1, 2° TILT



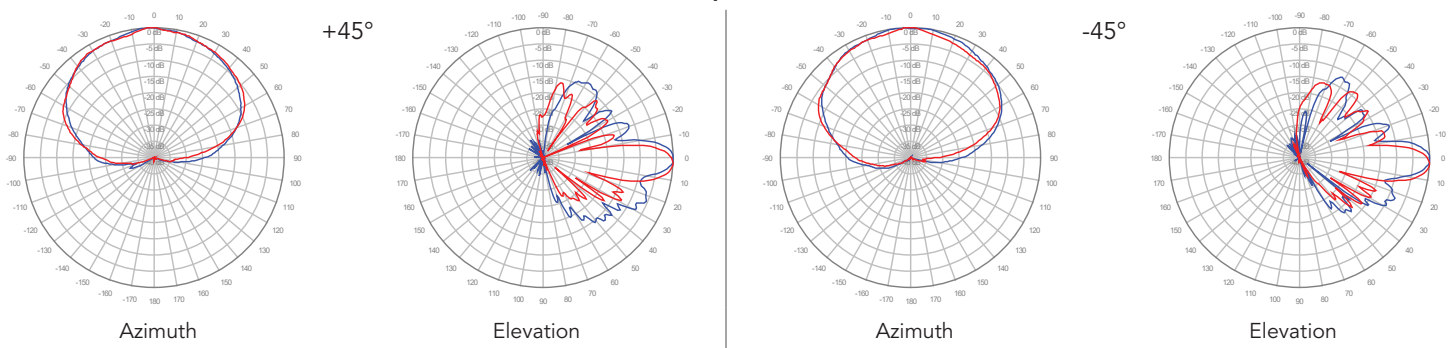
P2, 2° TILT



P3, 2° TILT



P4, 2° TILT

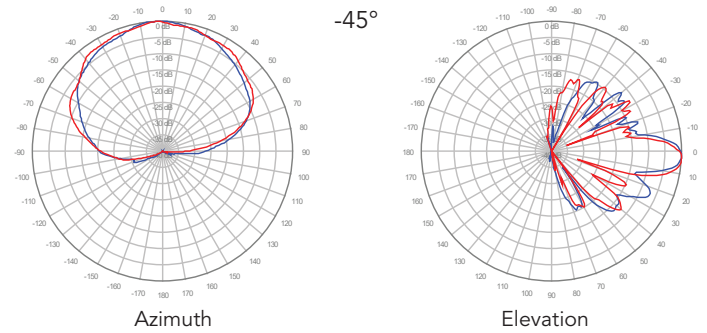
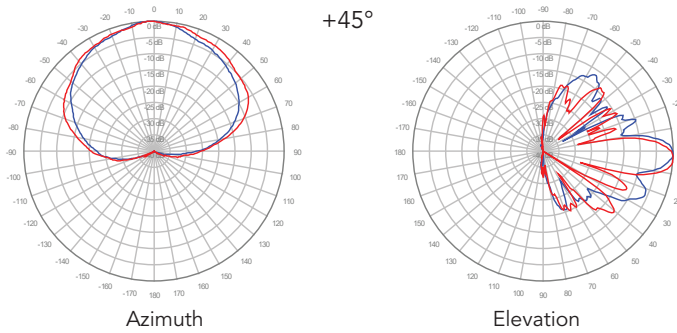


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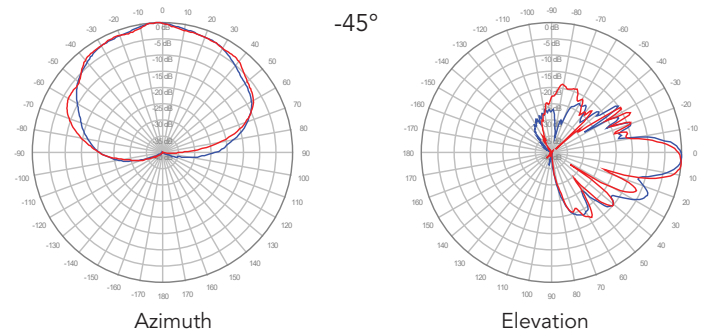
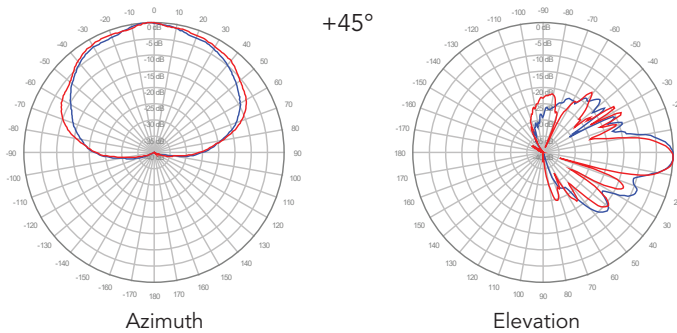
4C6U6VX065X12Fwxyz5

3600 MHz ————
4000 MHz ————

P5, 2° TILT



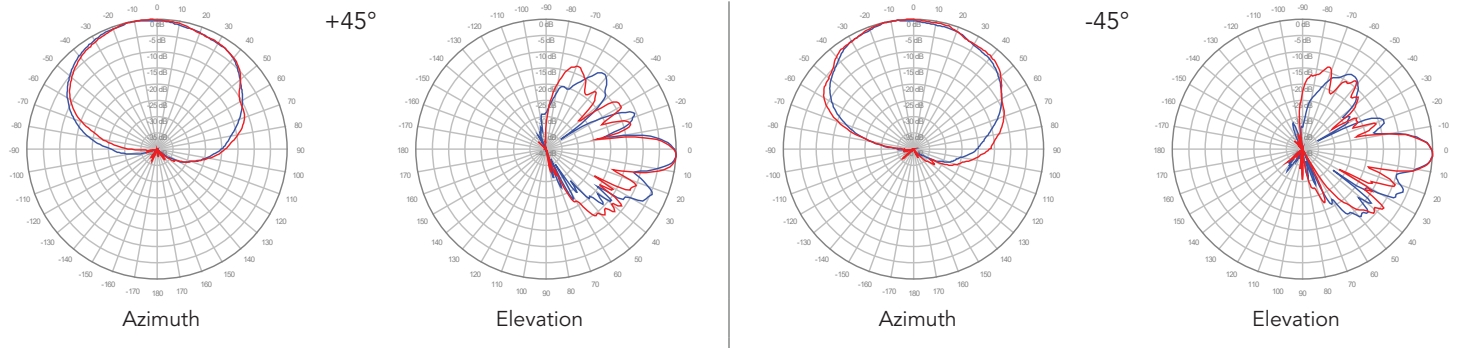
P6, 2° TILT



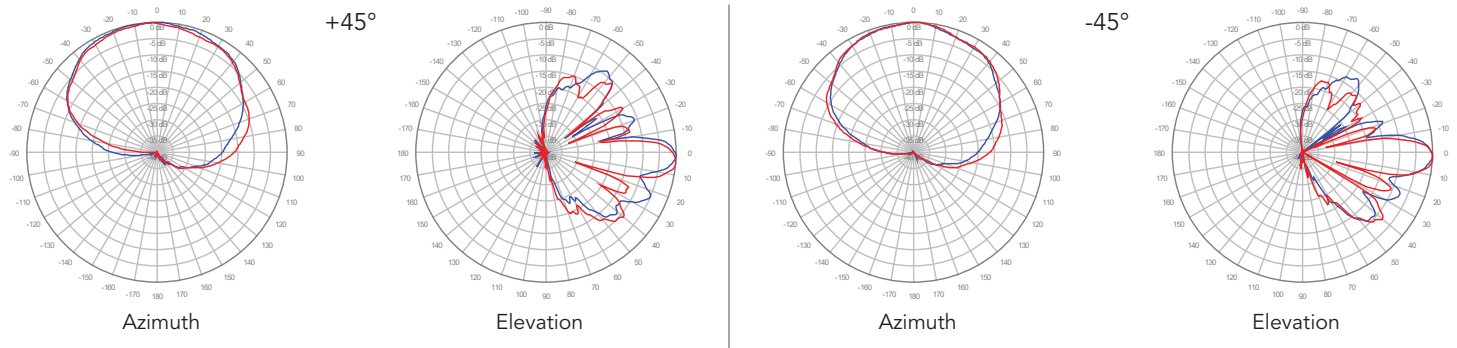
4C6U6VX065X12Fwxyz5

3600 MHz ————
4000 MHz ————

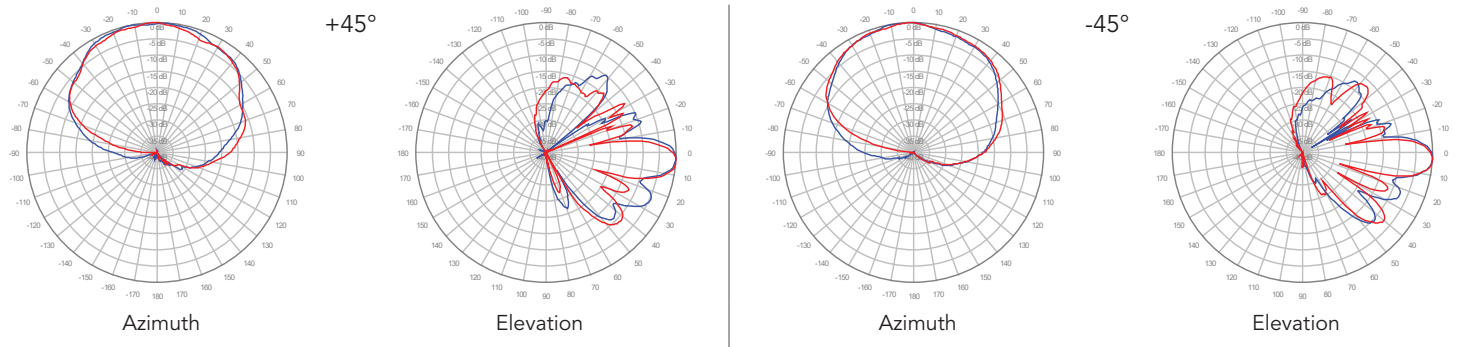
P1, 4° TILT



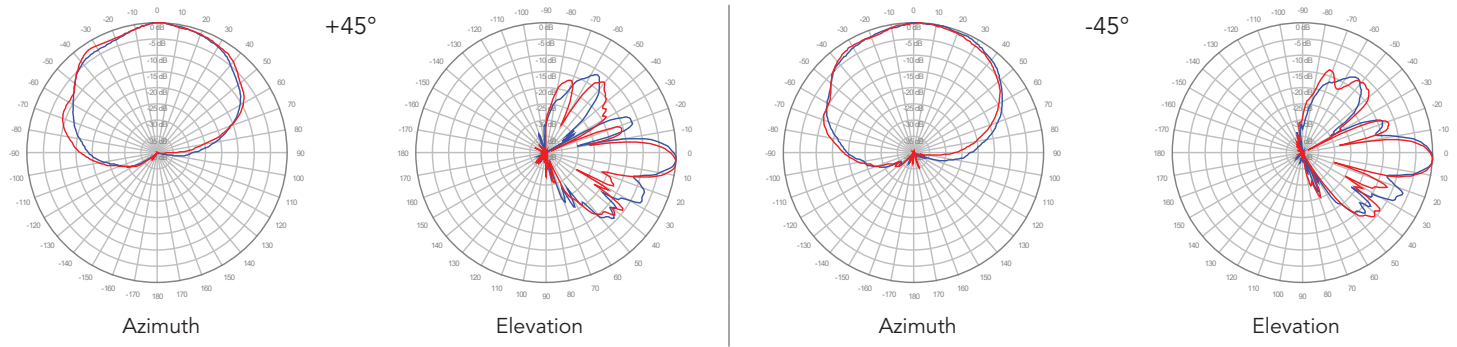
P2, 4° TILT



P3, 4° TILT



P4, 4° TILT

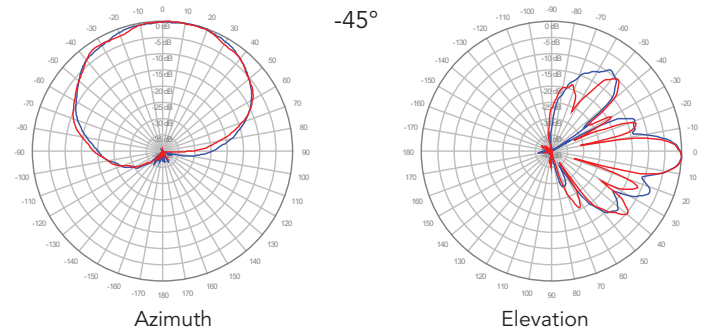
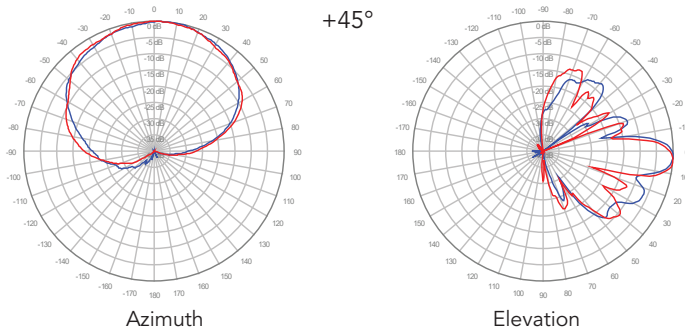


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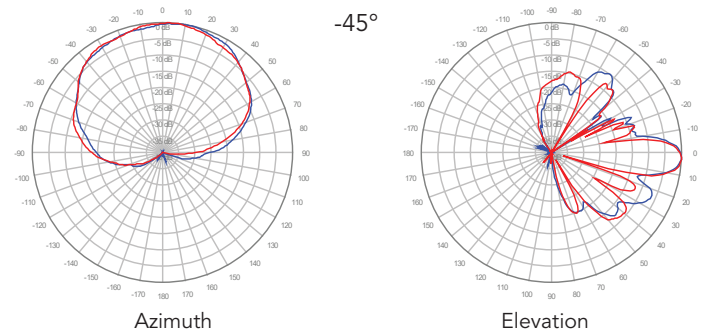
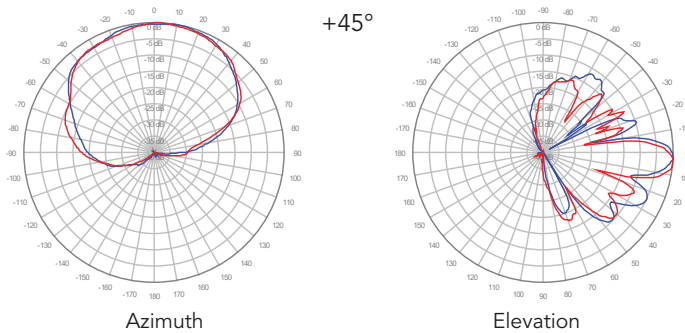
4C6U6VX065X12Fwxyz5

3600 MHz ————
4000 MHz ————

P5, 4° TILT



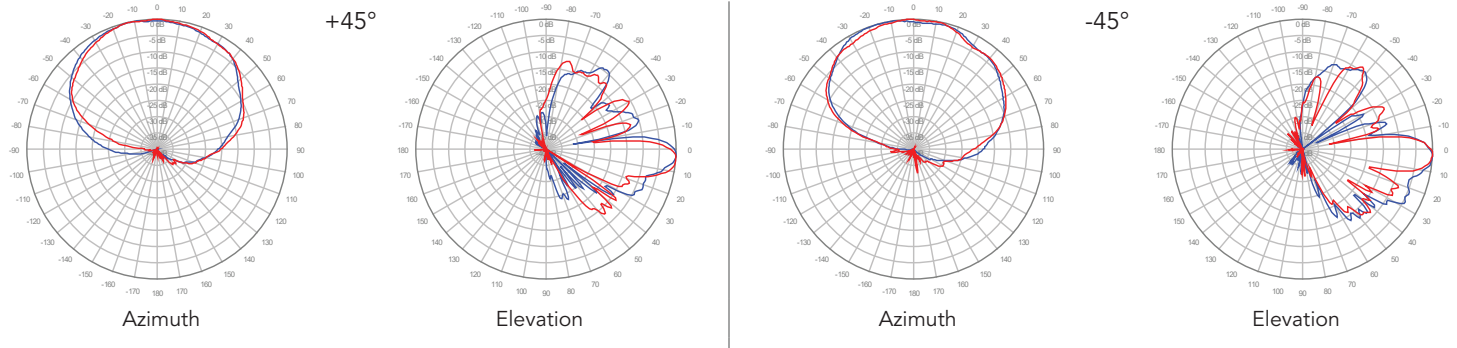
P6, 4° TILT



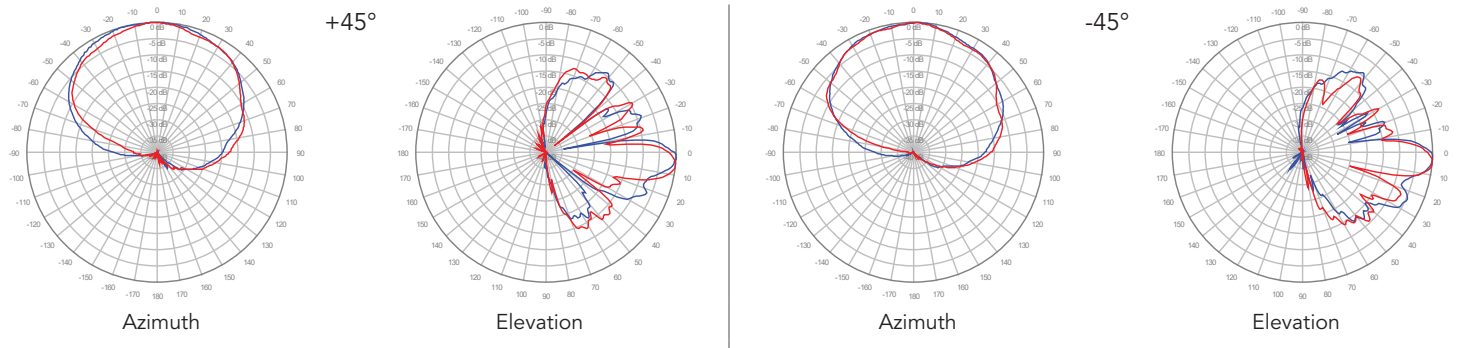
4C6U6VX065X12Fwxyz5

3600 MHz ————
4000 MHz ————

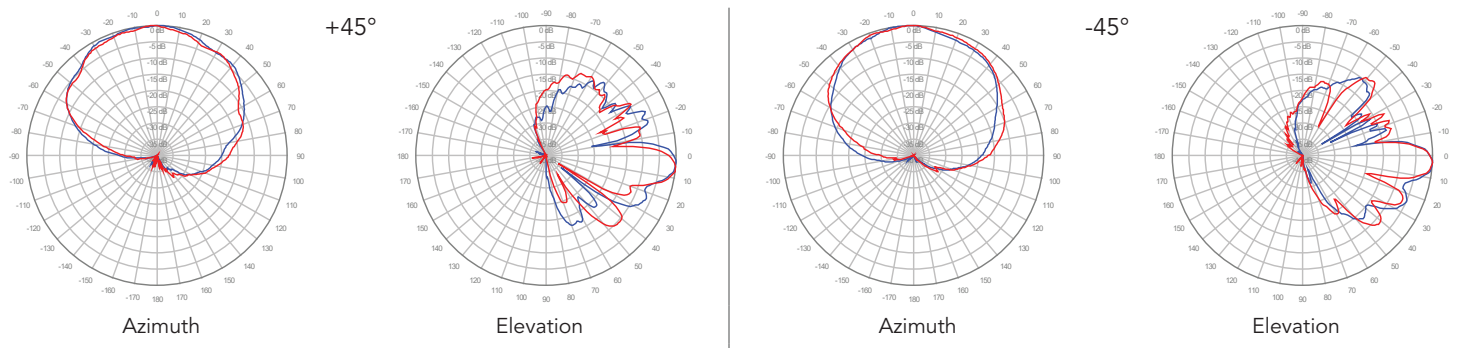
P1, 6° TILT



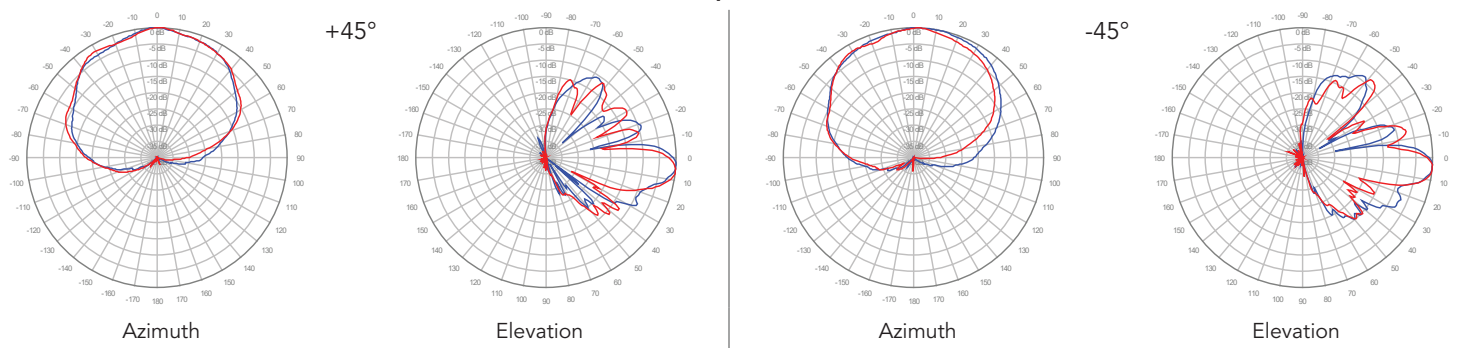
P2, 6° TILT



P3, 6° TILT



P4, 6° TILT

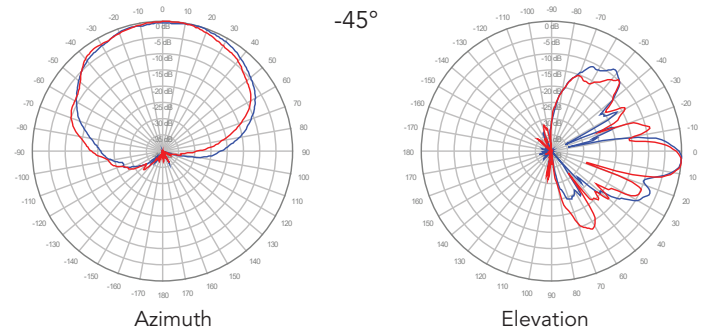
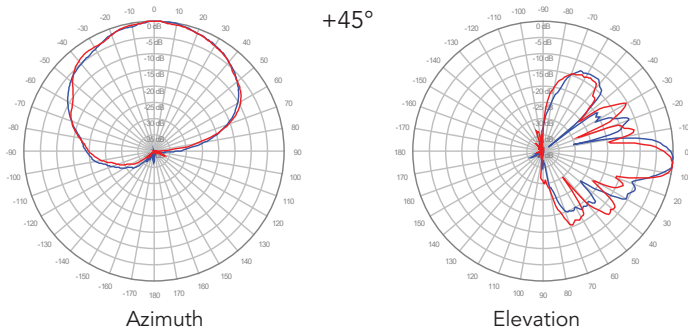


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4C6U6VX065X12Fwxyc5

3600 MHz ————
4000 MHz ————

P5, 6° TILT



P6, 6° TILT

