

2C4U4VX045X14Fwxys5

Features

- Unique high port count panel antenna for 4G/5G small cell applications
- 20 total connectors to service the 696-896, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or 4x4 MIMO deployments
- Fixed tilt options



PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-896	(4x) 1695-2700	(4x) 3300-4200
	Array	■ R1, ■ R2	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4
	Connector	4 PORTS	8 PORTS	8 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	45°	45°	45°
	Electrical Downtilt	0°	0°, 5°	0°, 5°
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	5200 WATTS		
	Total Connector Count	20 PORTS		
	Connector Type	4.3-10 FEMALE		
Dimensions	1392 x 407 x 179 mm (54.8 x 16.0 x 7.1)			
Radome Color Options	GREY			

ELECTRICAL SPECIFICATIONS

		■ R1 ■ R2	
Frequency Range		MHz	(2x) 696-896
Frequency Sub-Range		MHz	696-806 806-896
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	12.4 ± 0.6 13.3 ± 0.5
	MAX	dBi	13.0 13.8
Azimuth Beamwidth (3 dB)		degrees	46.4° ± 2.1° 41.8° ± 3.1°
Elevation Beamwidth (3 dB)		degrees	41.1° ± 3.9° 36.1° ± 3.2°
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	> 22
	Interband	dB	> 28 same band; > 30 different band

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ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2 ■ Y3 ■ Y4

Frequency Range	MHz	(4x) 1695-2700				
Frequency Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700	
Polarization	---	(4x) ±45°				
Gain	BASTA	dBi	14.1 ± 0.5	14.8 ± 0.4	15.3 ± 0.7	15.9 ± 0.5
	MAX	dBi	14.6	15.2	16.0	16.4
Azimuth Beamwidth (3 dB)	degrees	55.1° ± 7.4°	47.0° ± 5.1°	43.6° ± 6.3°	37.8° ± 5.4°	
Elevation Beamwidth (3 dB)	degrees	20.7° ± 1.1°	20.0° ± 1.1°	18.9° ± 2.0°	16.3° ± 1.3°	
Electrical Downtilt	degrees	(x) 0°, 5°				
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	> 22			
	Interband	dB	> 28 same band; > 30 different band			

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2 ■ P3 ■ P4

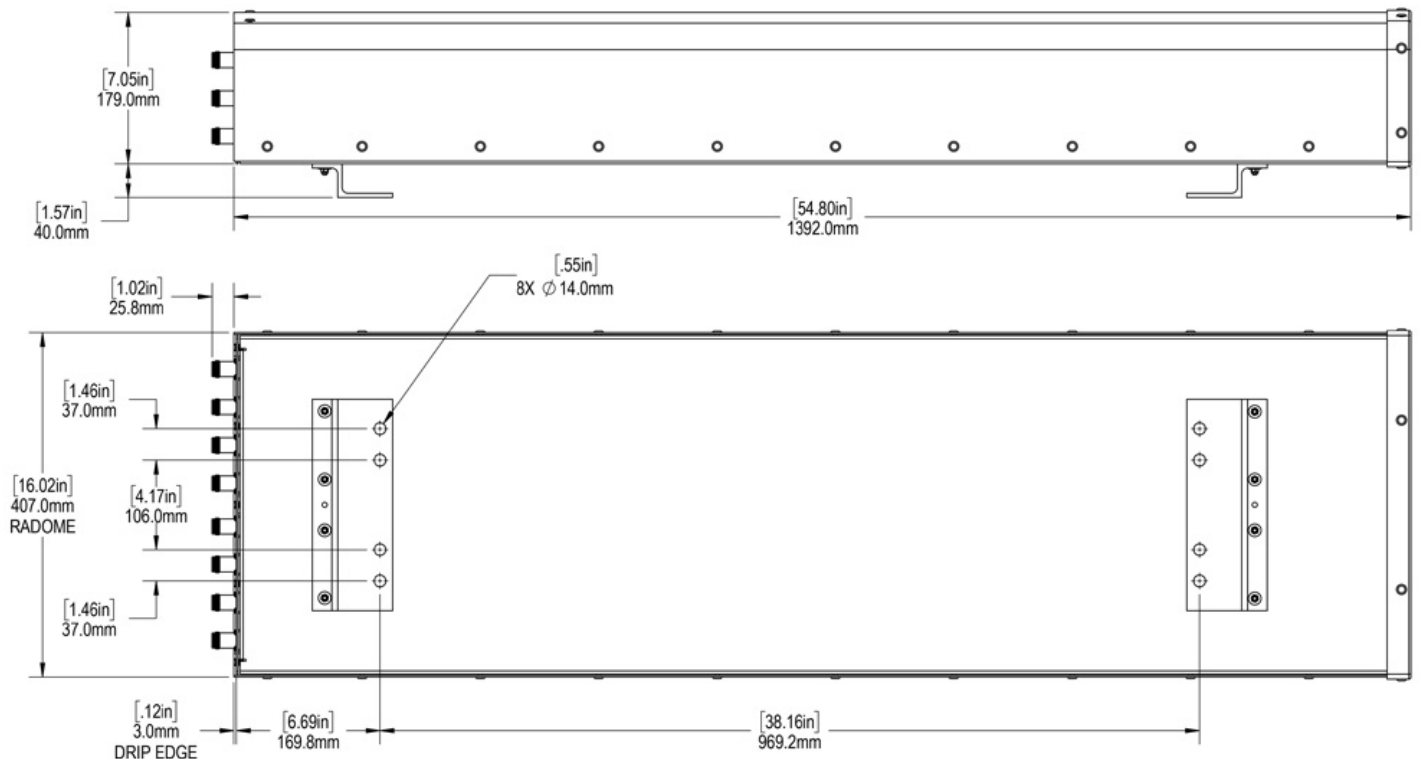
Frequency Range	MHz	(4x) 3300-4200			
Frequency Sub-Range	MHz	3300-3550	3550-3700	3700-4200	
Polarization	---	(4x) ±45°			
Gain	BASTA	dBi	17.9 ± 0.6	18.3 ± 0.5	18.2 ± 0.7
	MAX	dBi	18.5	18.8	18.9
Azimuth Beamwidth (3 dB)	degrees	43.3° ± 6.9°	38.3° ± 5.6°	34.5° ± 5.6°	
Elevation Beamwidth (3 dB)	degrees	10.8° ± 0.4°	10.4° ± 0.4°	9.6° ± 0.6°	
Electrical Downtilt	degrees	(y) 0°, 5°			
Impedance	Ohms	50Ω			
VSWR	---	1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	< -153			
Upper Sidelobe Suppression	dB	> 13.8			
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28 same band; > 30 different band		

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MECHANICAL SPECIFICATIONS

Antenna	Length	mm (in)	1392 (54.8)
	Width	mm (in)	407 (16.0)
	Depth	mm (in)	179 (7.1)
Net Weight - Antenna Only		kg (lbs)	16.3 (36)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	792 (178)
	Side	N (lbf)	361 (81)
Survival Wind Speed		km/h (mph)	241 (150)
Connector	Type	---	4.3-10 Female
	Quantity	---	20
	Position	---	Bottom
Radome Color		---	Grey
Operating Temperature		degrees	-40 to +60 C (-40 to +140 F)
Lightning Protection (Grounding Type)		---	Direct Ground

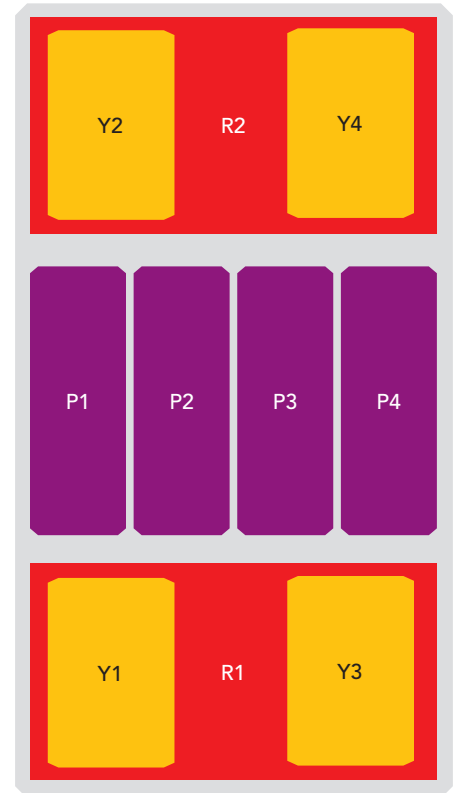


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ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-896 MHz	■ R1	1-2	(2x) 4.3-10 Female
696-896 MHz	■ R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	13-14	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	19-20	(2x) 4.3-10 Female



The illustration is not shown to scale.

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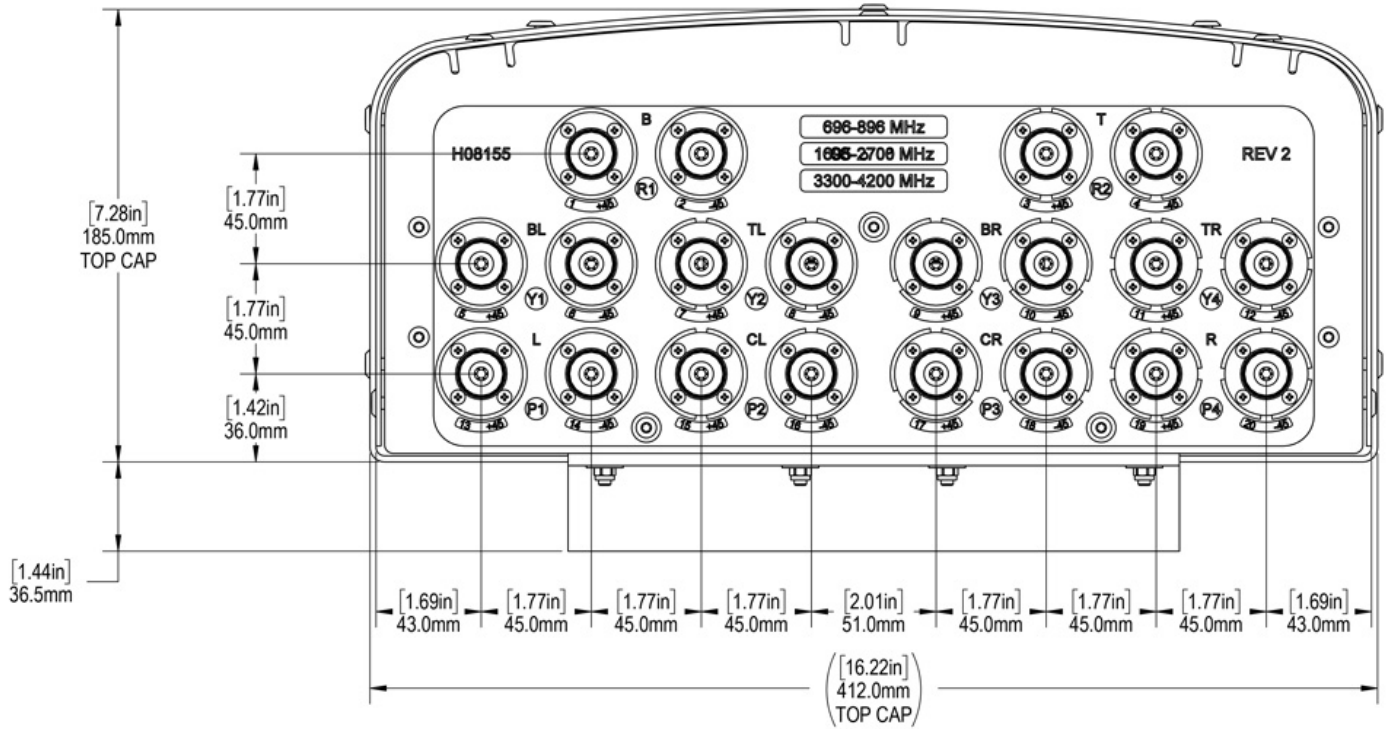
BOTTOM VIEW - LABELING



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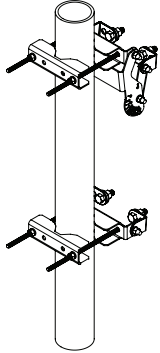
BOTTOM VIEW - CONNECTOR DIAGRAM



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MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
36210006	 <p>2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT</p>	40-115 mm (1.57-4.5 in)	4.1 kg (9 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
2C	4U	4V	X	045	X	14	F	wxy	s	5	-T
(2x) 696-896	(4x) 1695-2700	(4x) 3300-4200	Standard Panel Antenna	45°	XPOL	1.4 meters	Fixed Tilt	<p>These letters are placeholders for fixed tilt options.</p> <p>Refer to Electrical Specifications for available tilt options.</p>	4.3-10 Connector	5th generation mechanical package	<p>To order the antenna and mounting kit together as one line item, add a -T for the 2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT (36210006) to the end of the model number.</p> <p>If -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

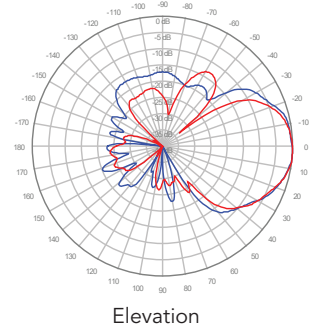
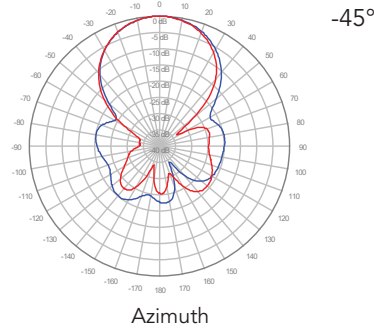
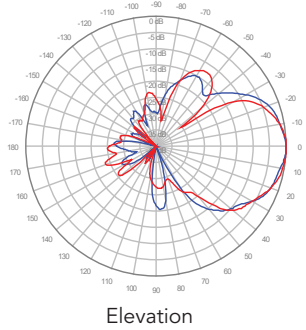
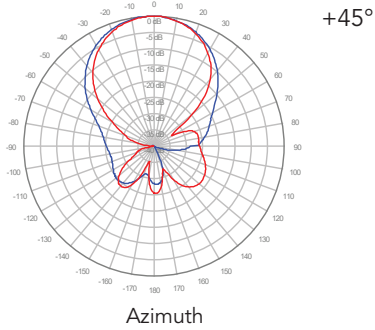
SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	696-896 MHz	1695-2700 MHz	3300-4200 MHz	
ANTENNA ONLY - NO MOUNTING KIT	0°	0°	0°	2C4U4VX045X14F000s5
	0°	0°	5°	2C4U4VX045X14F005s5
	0°	5°	0°	2C4U4VX045X14F050s5
	0°	5°	5°	2C4U4VX045X14F055s5
ANTENNA WITH 36210006 MOUNTING KIT 2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	0°	0°	0°	2C4U4VX045X14F000s5-T
	0°	0°	5°	2C4U4VX045X14F005s5-T
	0°	5°	0°	2C4U4VX045X14F050s5-T
	0°	5°	5°	2C4U4VX045X14F055s5-T

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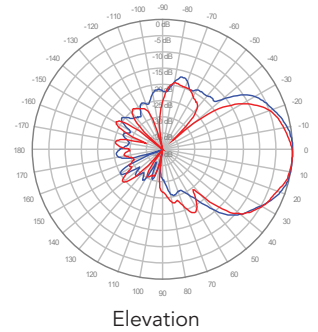
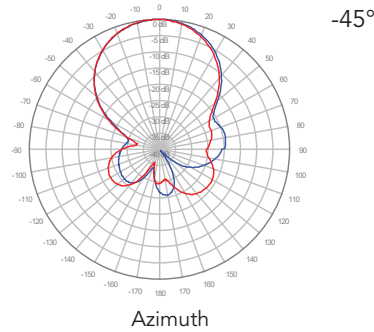
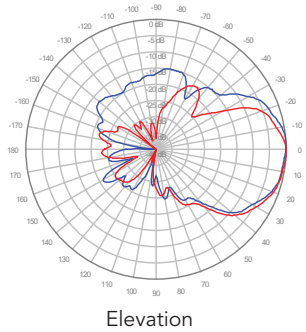
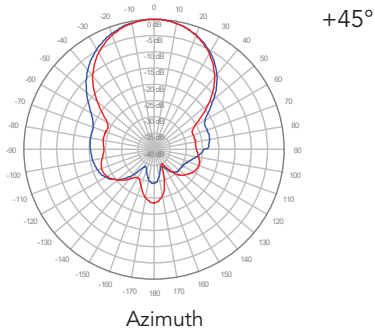
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750 MHz ————
850 MHz ————

■ R1, 0° TILT



■ R2, 0° TILT

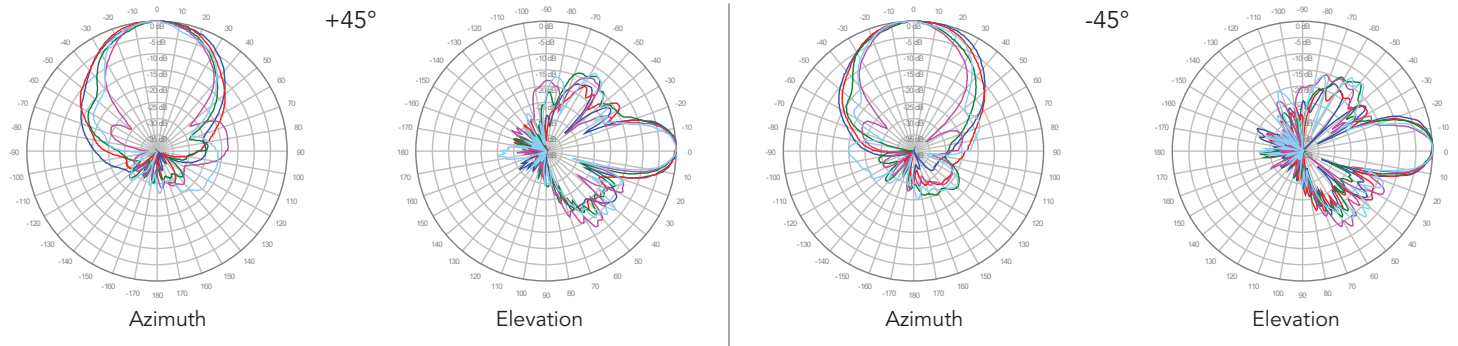


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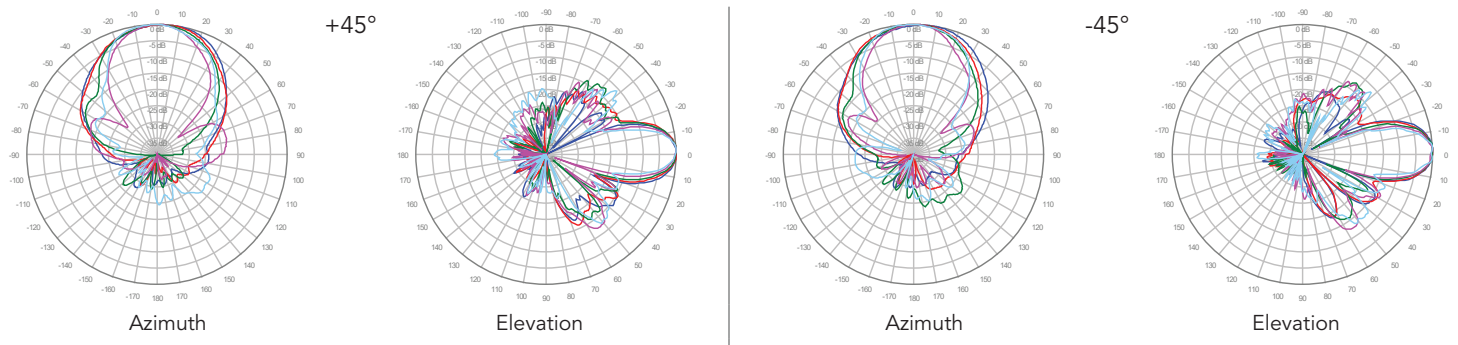
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

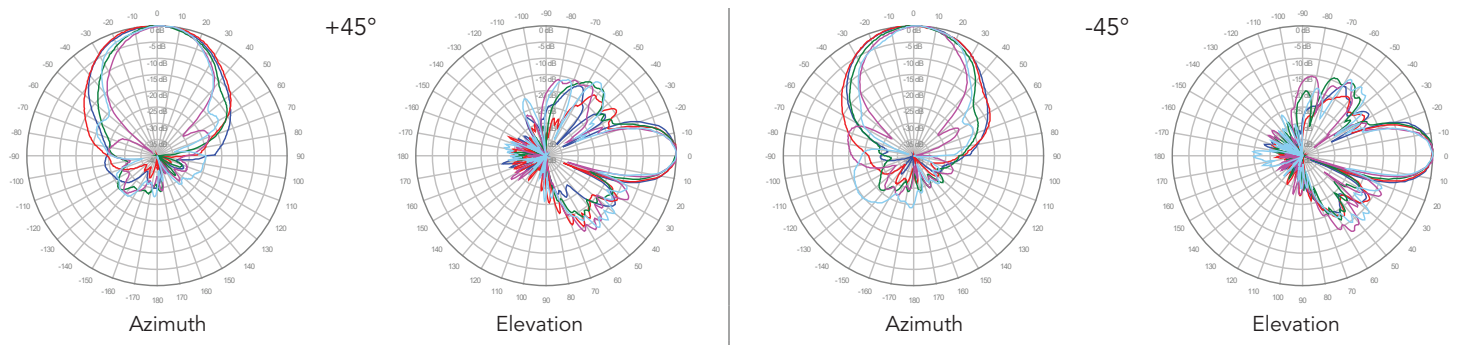
Y1, 0° TILT



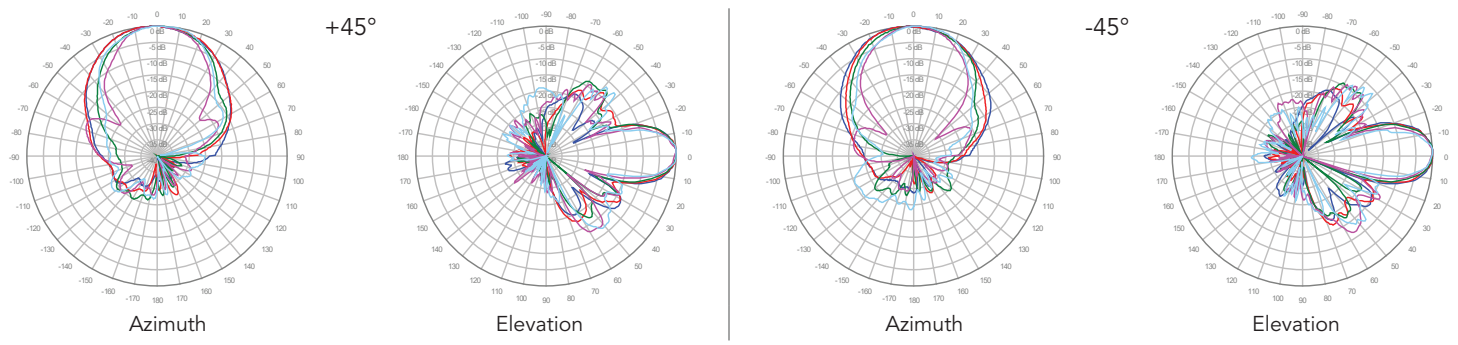
Y2, 0° TILT



Y3, 0° TILT



Y4, 0° TILT

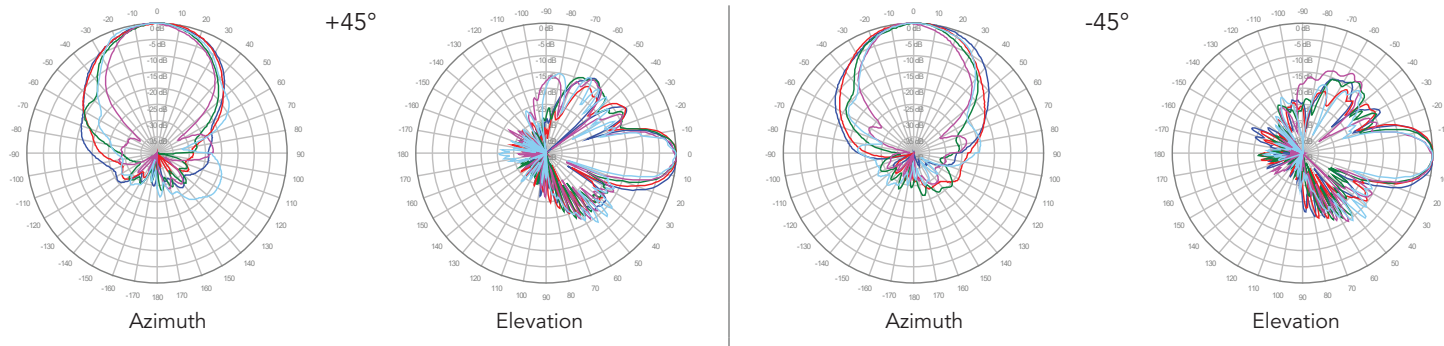


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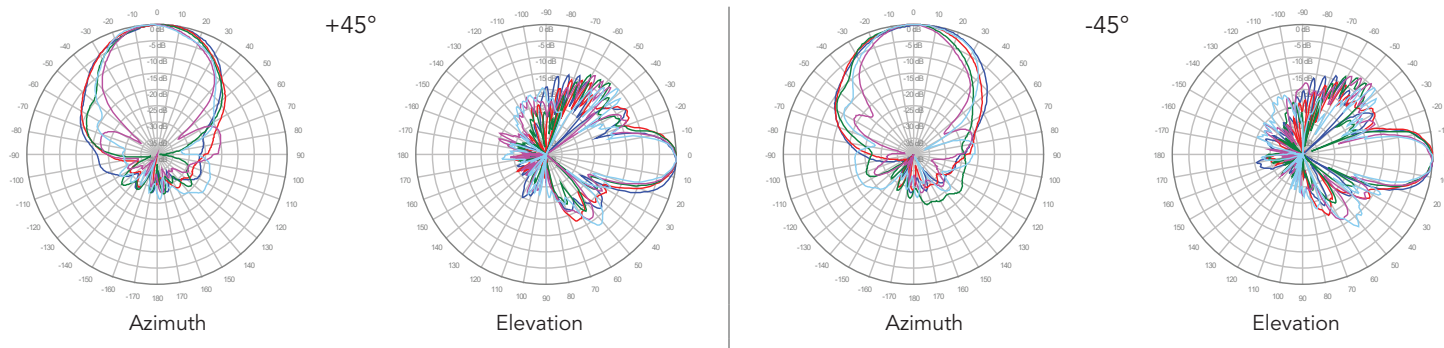
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

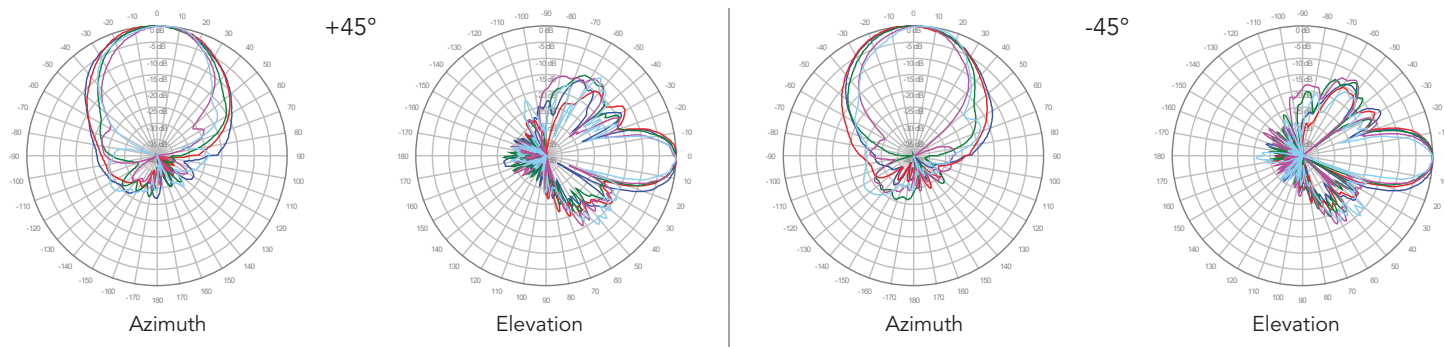
Y1, 5° TILT



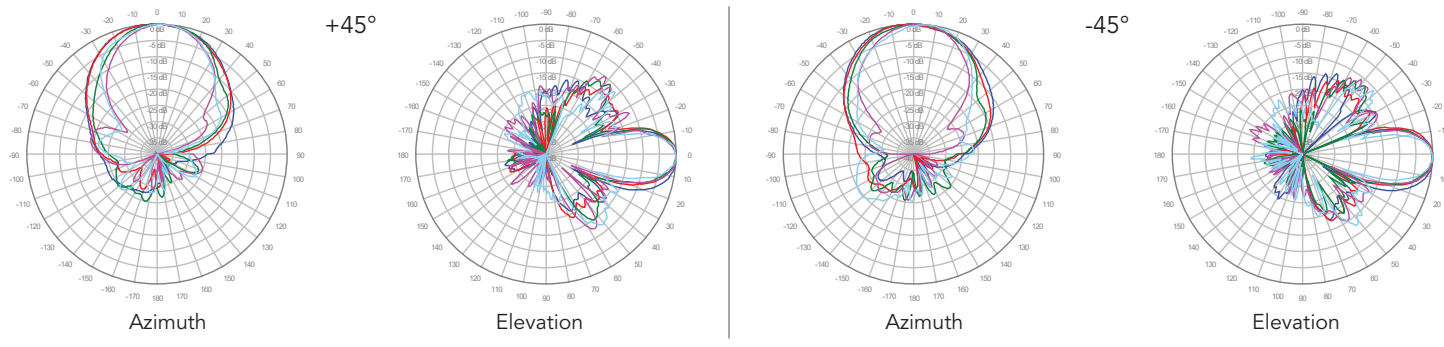
Y2, 5° TILT



Y3, 5° TILT



Y4, 5° TILT

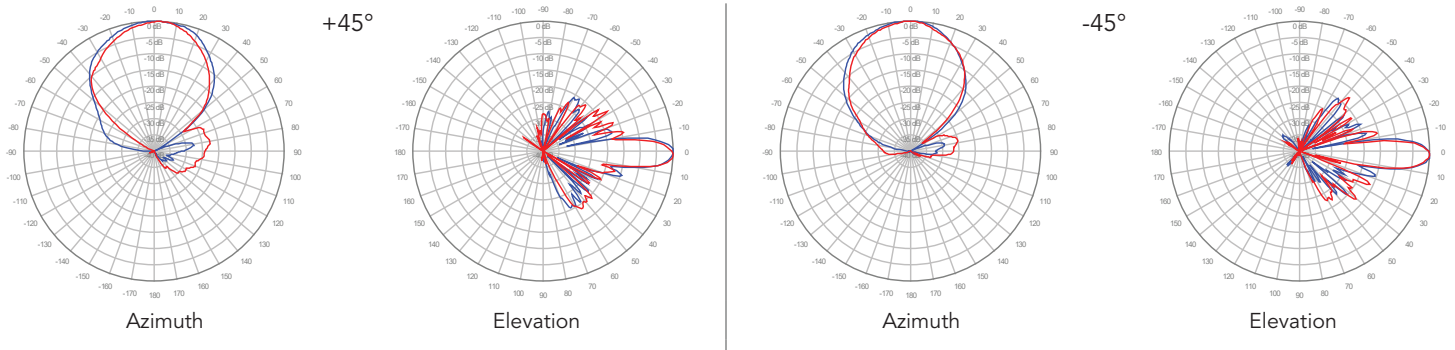


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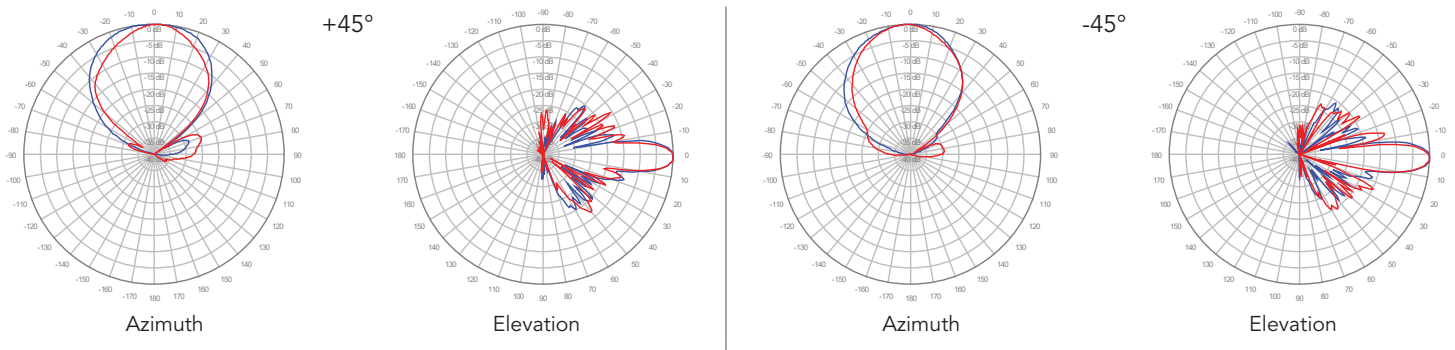
2C4U4VX045X14Fwxys5

3600 MHz ————
4000 MHz ————

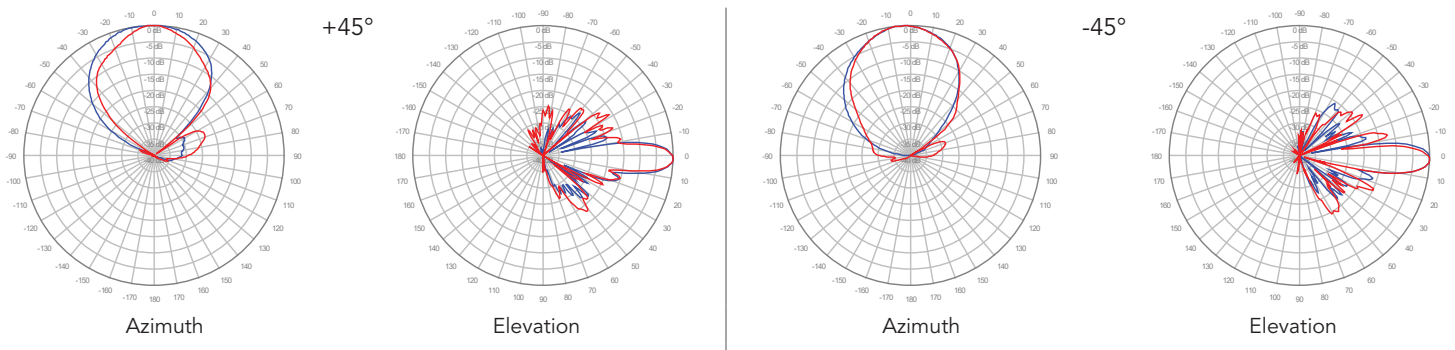
■ P1, 0° TILT



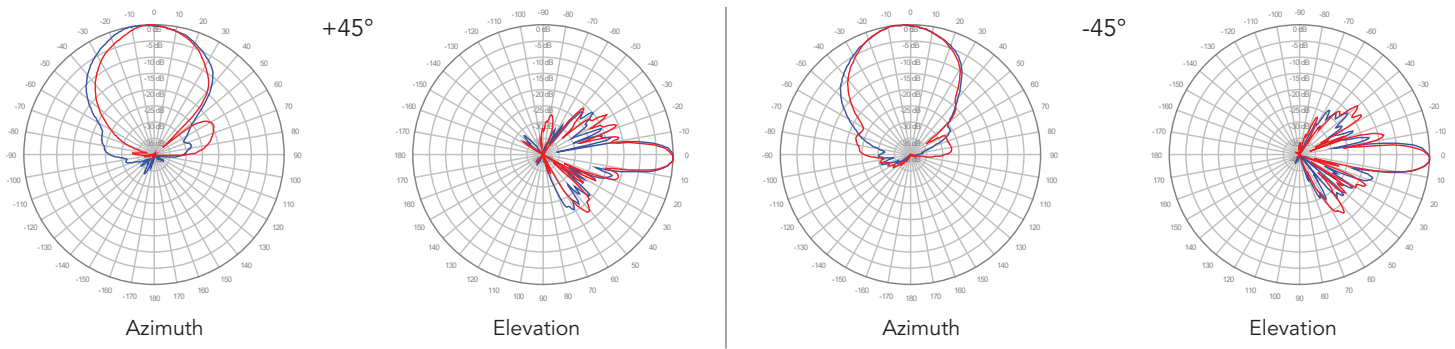
■ P2, 0° TILT



■ P3, 0° TILT



■ P4, 0° TILT

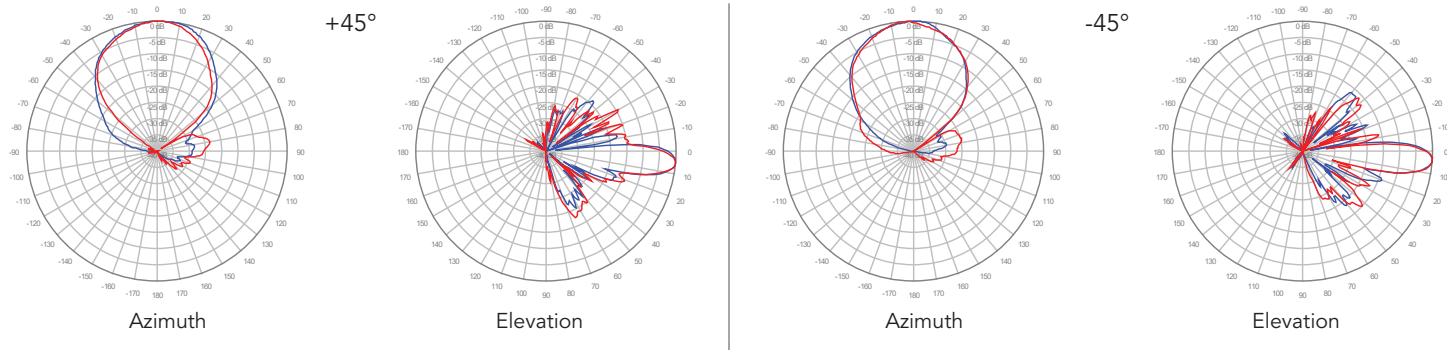


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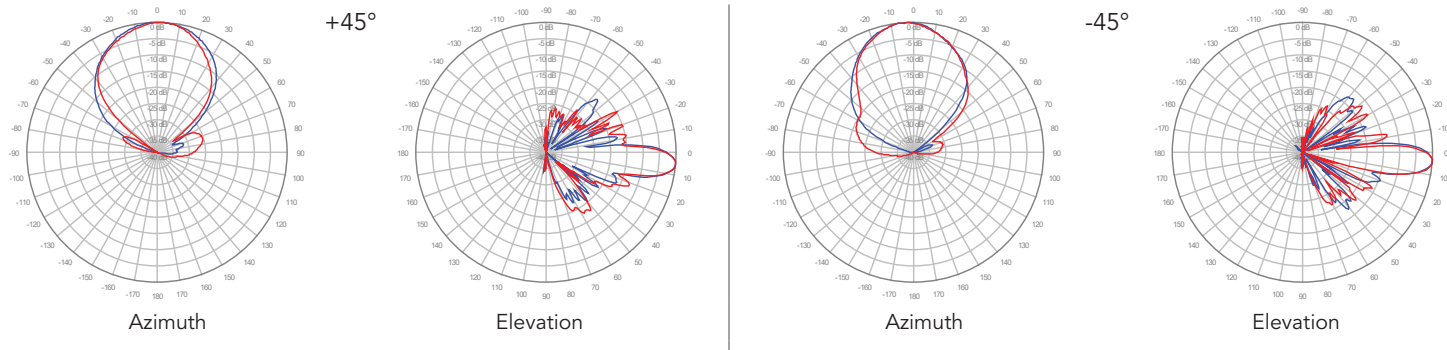
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3600 MHz ————
4000 MHz ————

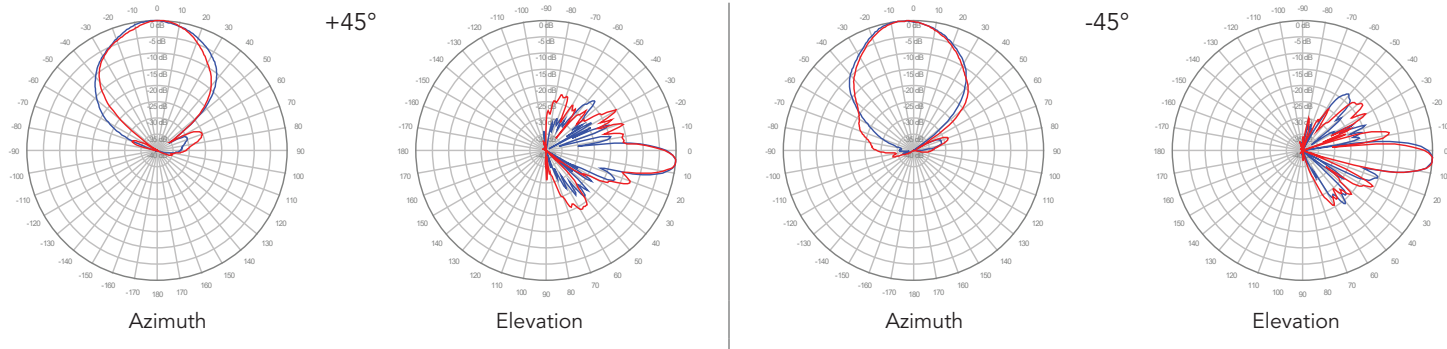
■ P1, 5° TILT



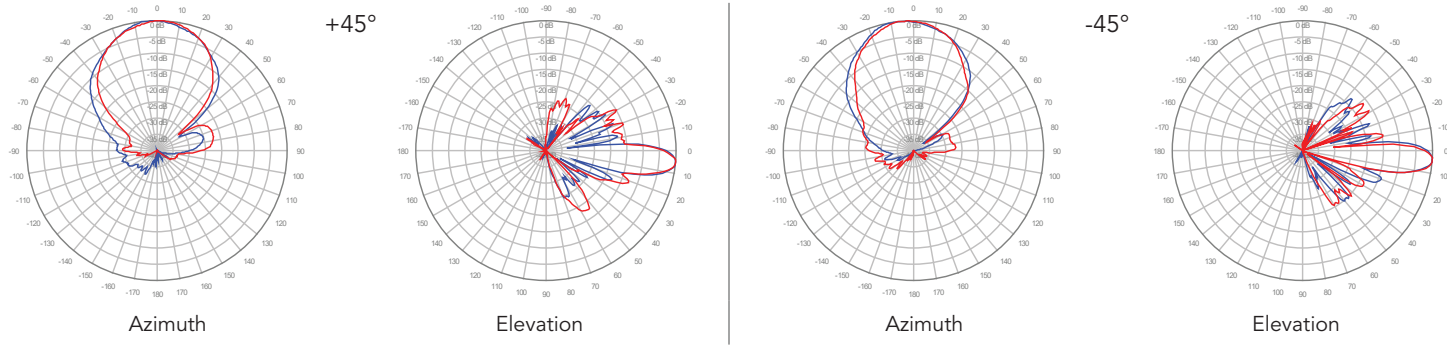
■ P2, 5° TILT



■ P3, 5° TILT



■ P4, 5° TILT



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