

4U6VX065X06F_{xys}5

Features

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



PRODUCT OVERVIEW	Frequency Range (MHz)	(4x) 1695-2700	(6x) 3300-4200
	Array	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4, ■ P5, ■ P6
	Connector	8 PORTS	12 PORTS
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°
	Electrical Downtilt	2°, 4°, 6°	2°, 4°, 6°
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3600 WATTS	
	Total Connector Count	20 PORTS	
	Connector Type	4.3-10 FEMALE	
	Dimensions	628 x 462 x 268 mm (24.7 x 18.2 x 10.6)	
	Radome Color Options	GREY	

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	12.5 ± 1.3	12.8 ± 1.0	12.9 ± 1.0	13.6 ± 0.7
	MAX	dBi	13.8	13.8	13.9	14.3
Azimuth Beamwidth (3 dB)		degrees	63.5° ± 16.6°	63.5° ± 13.6°	64.6° ± 11.4°	82.4° ± 15.4°
Elevation Beamwidth (3 dB)		degrees	20.7° ± 2.4°	19.8° ± 1.9°	18.4° ± 2.6°	15.8° ± 2.2°
Electrical Downtilt		degrees	(x) 2°, 4°, 6° (Refer to Ordering Options for available tilt combinations)			
Impedance		Ohms	50Ω			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 12			
Isolation	Intraband	dB	> 25	> 25	> 25	> 25
	Interband	dB	> 28	> 28	> 28	> 28

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ELECTRICAL SPECIFICATIONS

■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6

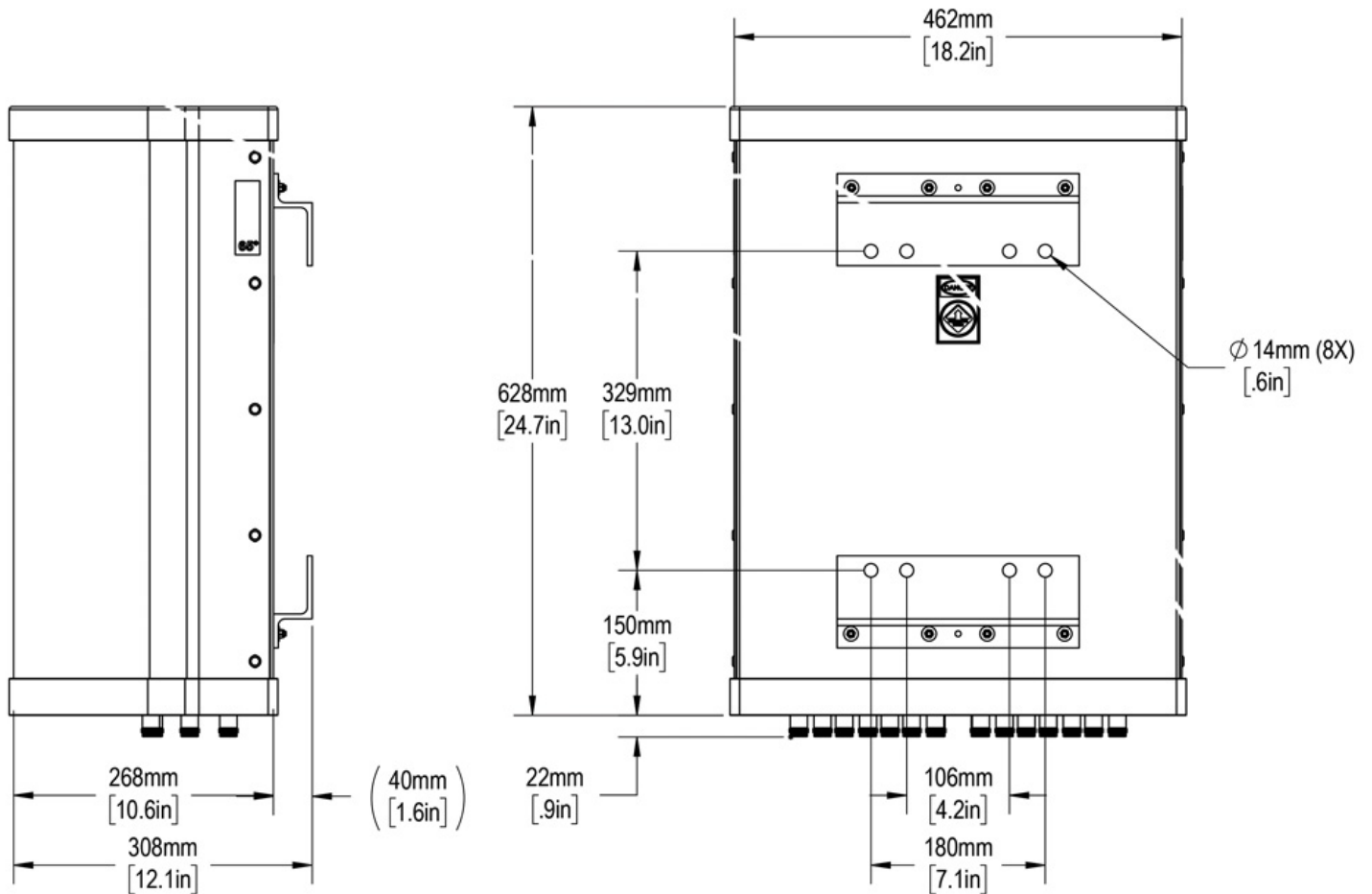
Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	13.3 ± 1.0	14.3 ± 0.9	15.3 ± 0.6
	MAX	dBi	14.3	15.2	15.9
Azimuth Beamwidth (3 dB)		degrees	77.1° ± 13.9°	65.4° ± 13.8°	64.8° ± 9.1°
Elevation Beamwidth (3 dB)		degrees	16.9° ± 2.0°	16.2° ± 1.5°	14.9° ± 1.2°
Electrical Downtilt		degrees	(y) 2°, 4°, 6° (Refer to Ordering Options for available tilt combinations)		
Impedance		Ohms	50Ω		
VSWR		---	≤ 1.5:1		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153		
Upper Sidelobe Suppression		dB	> 15		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28		

MECHANICAL SPECIFICATIONS

Antenna	Length	mm (in)	628 (24.7)
	Width	mm (in)	462 (18.2)
	Depth	mm (in)	268 (10.6)
Net Weight - Antenna Only		kg (lbs)	5.7 (13)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	262 (59)
	Side	N (lbf)	107 (24)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.21 (2.3)
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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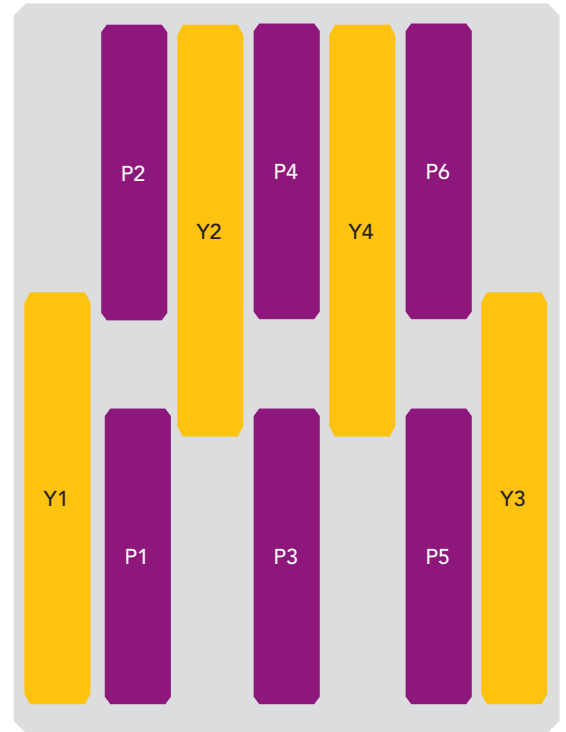
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ARRAY LAYOUT Topology

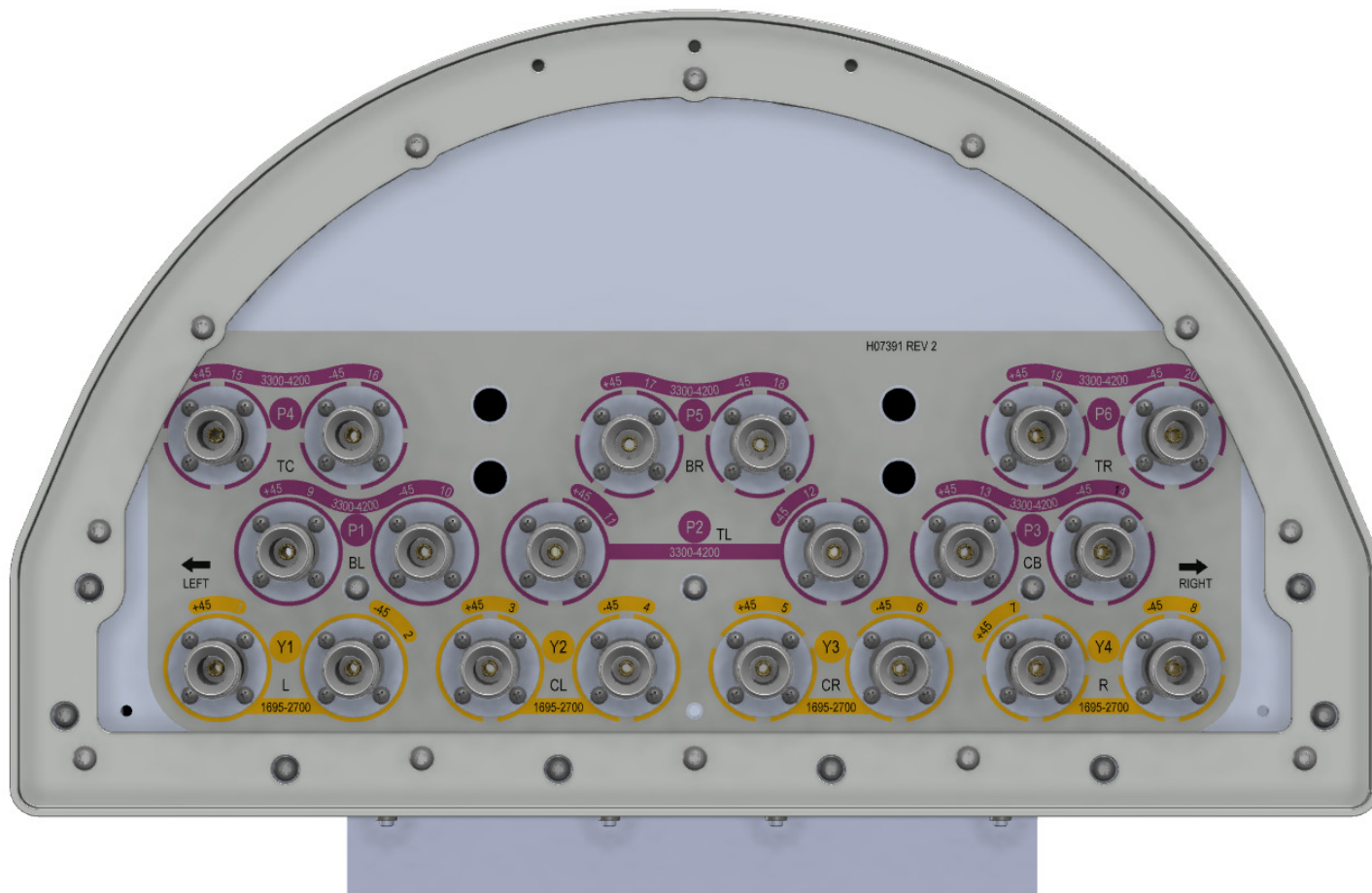
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	13-14	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P5	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P6	19-20	(2x) 4.3-10 Female



The illustration is not shown to scale.

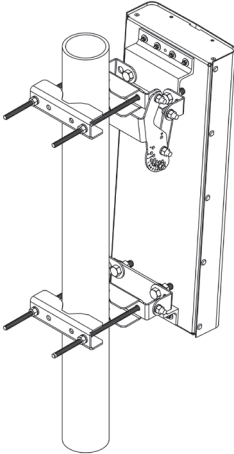
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BOTTOM VIEW - LABELING



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MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
36210006	 <div>2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT</div>	40-115 mm (1.57-4.5 in)	4.1 kg (9.0 lbs)



The antenna shown in the mounting kit illustration above is a generic representation and may not resemble the antenna described within this data sheet.

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 BWWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
4U	6V	X	065	X	06	F	xy	s	5	-T
(4x) 1695-2700	(6x) 3300-4200	Standard Panel Antenna	65°	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	5th generation enhanced mechanical package	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. If -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket. Refer to the ordering options for further detail.

ORDERING OPTIONS

Select from the following ordering options

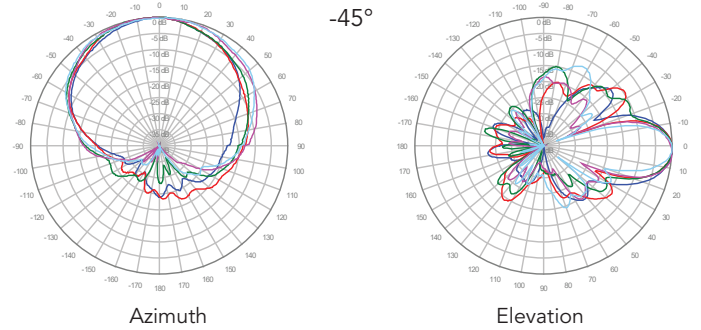
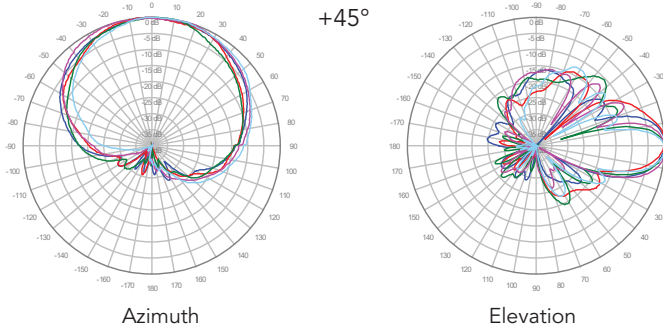
SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		ORDER MODEL NUMBER
	1695-2700 MHz	3300-4200 MHz	
ANTENNA ONLY - NO MOUNTING KIT	2°	2°	4U6VX065X06F22s5
	4°	4°	4U6VX065X06F44s5
	6°	6°	4U6VX065X06F66s5
ANTENNA WITH 36210006 MOUNTING KIT 2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	2°	2°	4U6VX065X06F22s5-T
	4°	4°	4U6VX065X06F44s5-T
	6°	6°	4U6VX065X06F66s5-T

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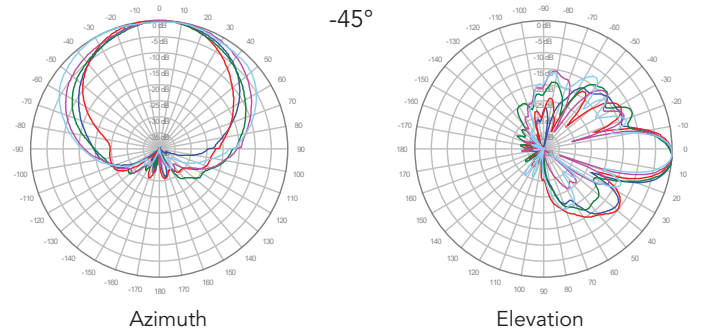
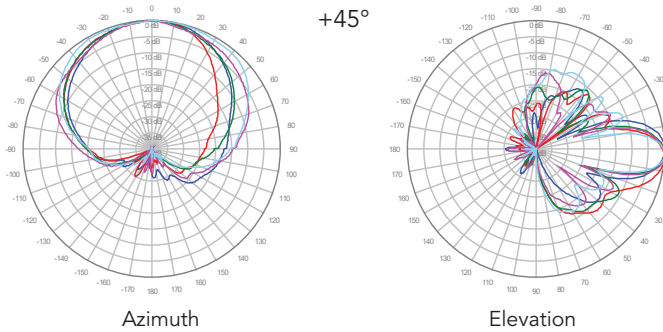
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1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

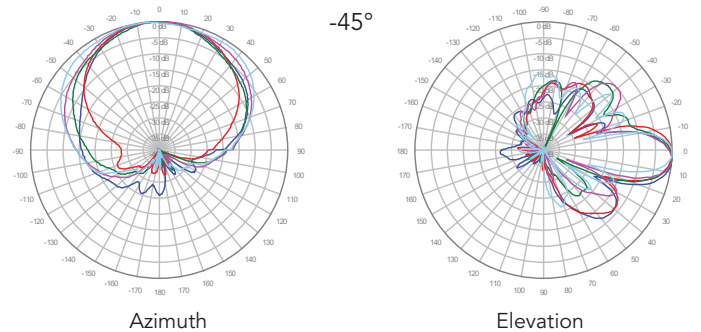
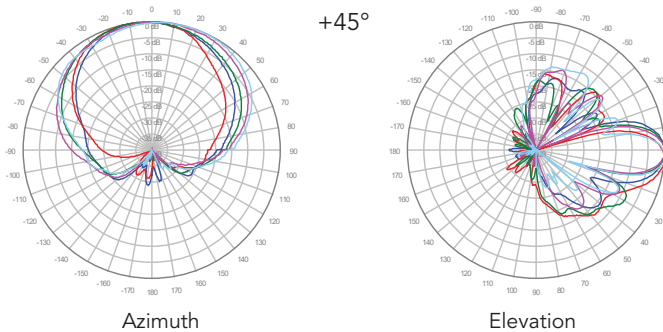
Y1, 2° TILT



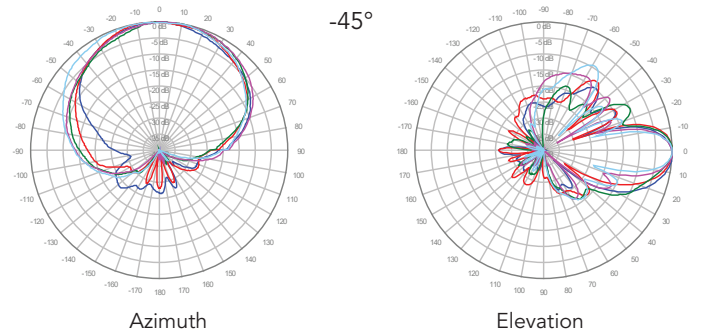
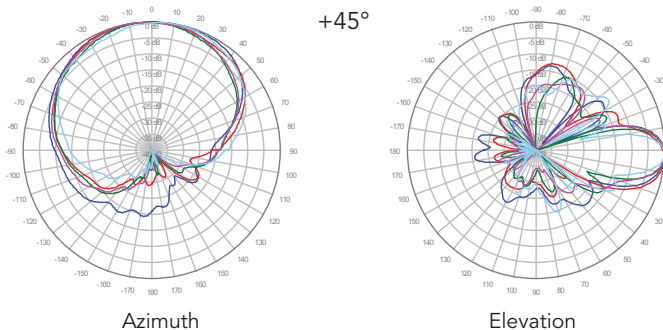
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

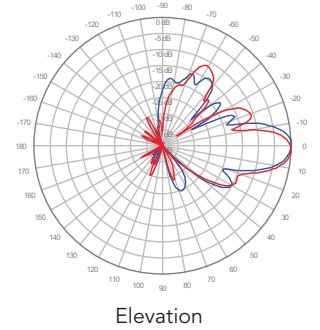
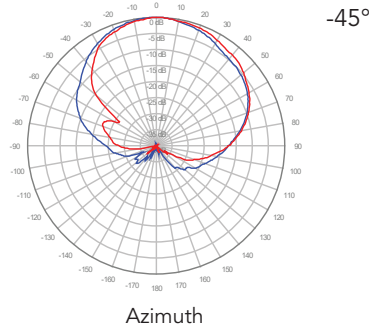
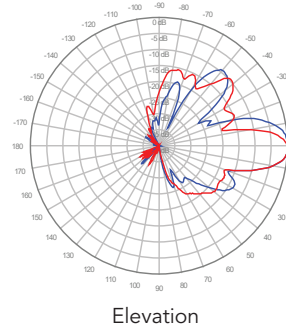
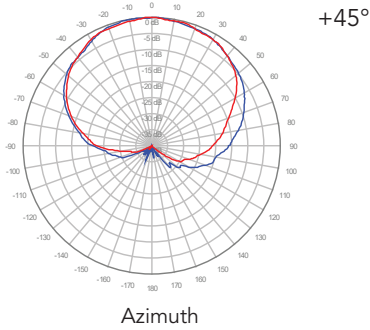


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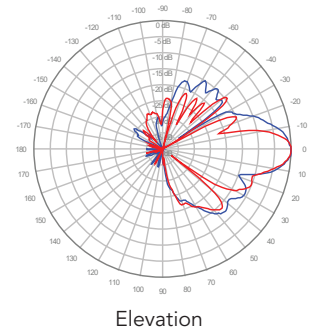
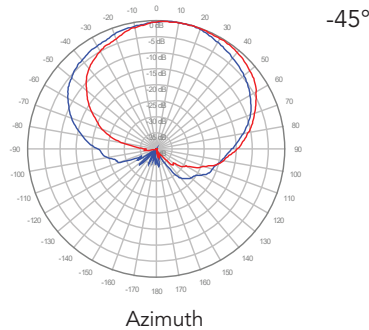
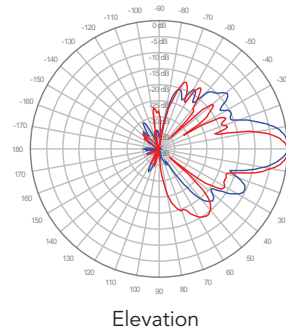
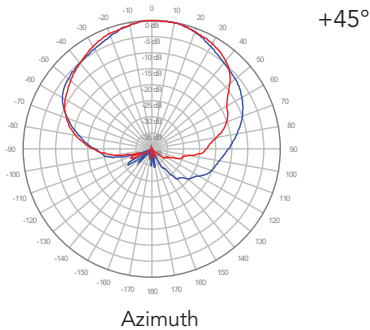
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3600 MHz ————
4000 MHz ————

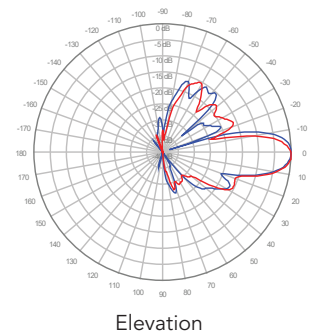
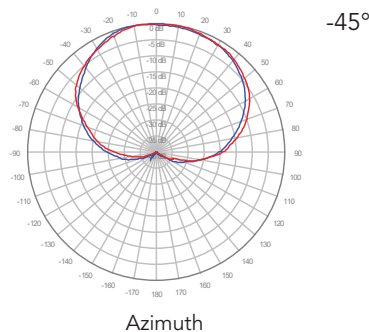
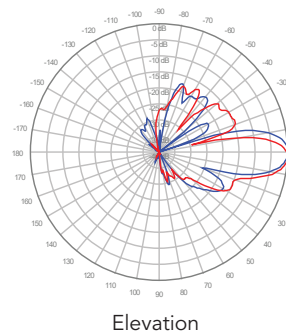
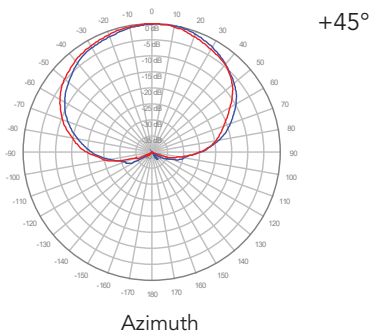
P1, 2° TILT



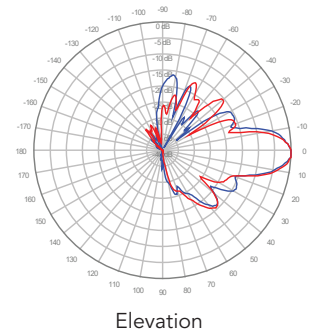
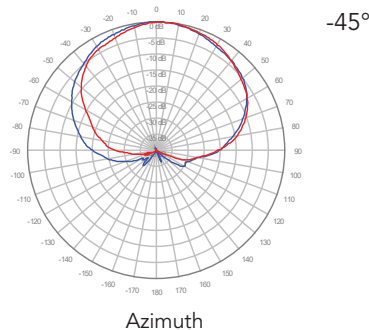
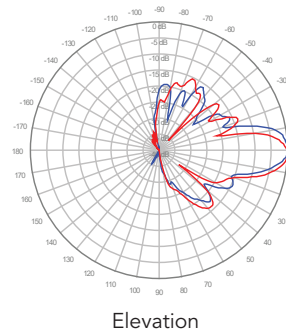
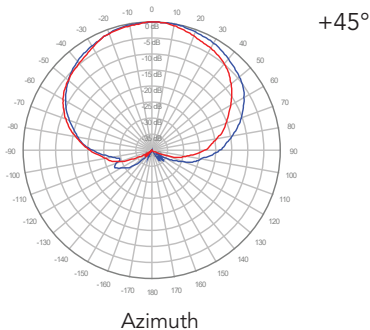
P2, 2° TILT



P3, 2° TILT



P4, 2° TILT



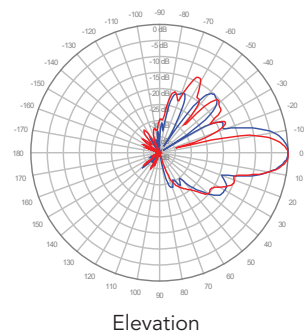
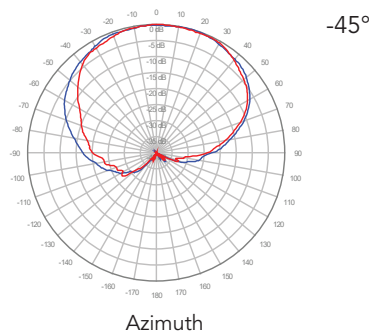
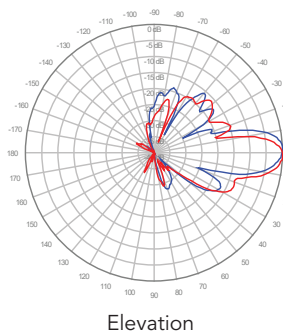
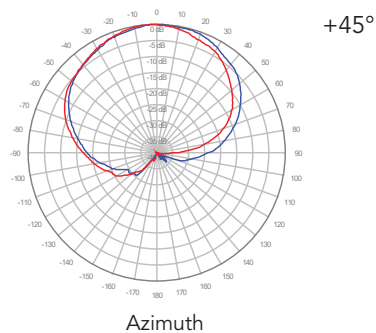
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3600 MHz ————

4000 MHz ————

P5, 2° TILT



P6, 2° TILT

