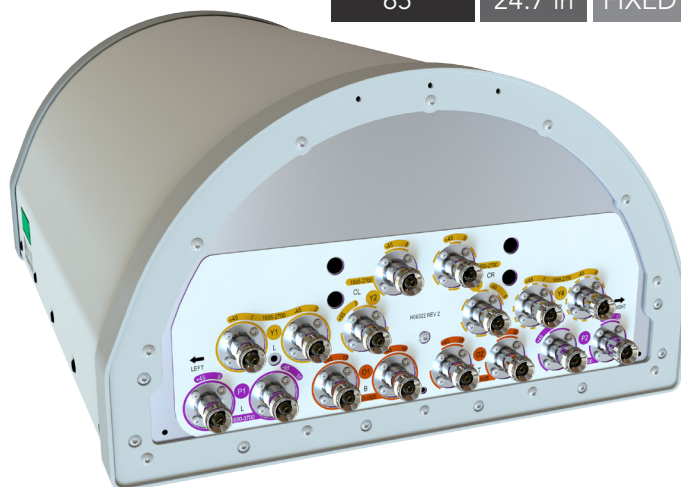










## 4U4MX065X06F<sub>xy</sub>s0

### Features

- Fixed tilt panel antenna with 16 connectors
- Ultra-wide band performance
- Ideal solution for Small Cell applications
- This antenna meets the requirements of the U-NII



PRODUCT OVERVIEW	Frequency Range (MHz)	MID				CBRS		LAA	
		(4x) 1695-2700				(2x) 3550-3700		(2x) 5150-5925	
	Array	 Y1	 Y2	 Y3	 Y4	 P1	 P2	 O1	 O2
	Connector	8 PORTS				4 PORTS		4 PORTS	
	Polarization	XPOL				XPOL		XPOL	
	Azimuth Beamwidth (avg)	70°				40°		71°	
	Electrical Downtilt	2°, 4°, 6°				0°		0°	
	Total Connector Count	16 PORTS							
	Connector Type	4.3-10 FEMALE							
	Dimensions	628 x 462 x 268 mm (24.7 x 18.2 x 10.6)							

### ELECTRICAL SPECIFICATIONS Mid Band

■ 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	13.6 ± 0.8	14.1 ± 0.7	14.2 ± 0.7	14.7 ± 0.8
	MAX	dBi	14.4	14.8	14.9	15.5
Azimuth Beamwidth (3 dB)		degrees	79.4° ± 15.7°	78.8° ± 16.1°	76.2° ± 14.7°	67.9° ± 14.2°
Elevation Beamwidth (3 dB)		degrees	20.7° ± 2.5°	19.8° ± 2.8°	18.7° ± 2.4°	15.5° ± 1.7°
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	> 12			
Maximum Power Per Port		Watts	(8x) 300 W			
Isolation	Intraband	dB	25	25	25	25
	Interband	dB	28	28	28	28

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## 4U4MX065X06F<sub>xy</sub>s0

### ELECTRICAL SPECIFICATIONS CBRs Band

■ P1 ■ P2

Frequency Range		MHz	(2x) 3550-3700
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	10.5 ± 0.8
	MAX	dBi	11.3
Azimuth Beamwidth (3 dB)		degrees	40.4° ± 11.8°
Elevation Beamwidth (3 dB)		degrees	33.7° ± 4.5°
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	N/A
Maximum Power Per Port		Watts	(4x) 300 W
Isolation	Intraband	dB	25
	Interband	dB	28

### ELECTRICAL SPECIFICATIONS LAA Band

■ O1 ■ O2

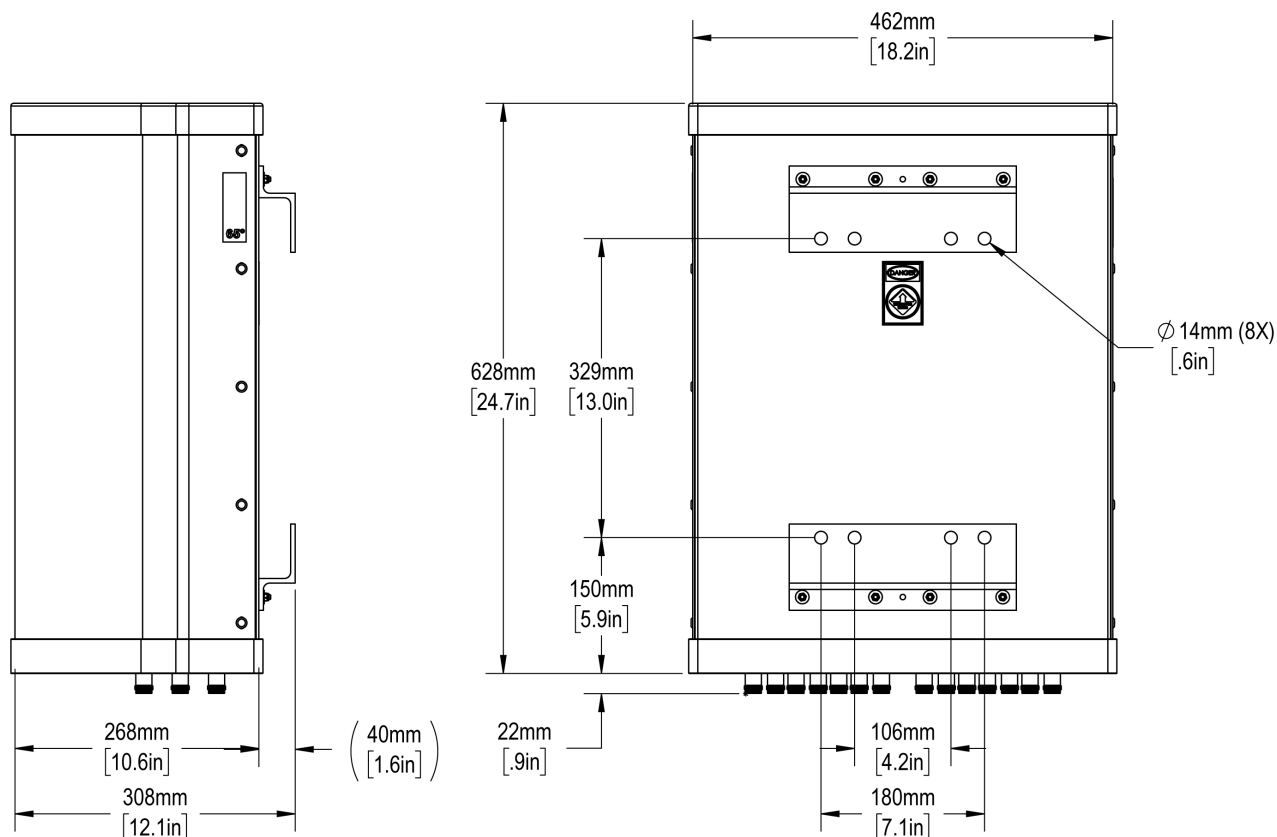
Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	4.1 ± 1.3
	MAX	dBi	5.4
Azimuth Beamwidth (3 dB)		degrees	71.0° ± 15.3°
Elevation Beamwidth (3 dB)		degrees	23.2° ± 4.7°
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBm (dBc)	N/A
Upper Sidelobe Suppression		dB	U-NII Compliant
Maximum Power Per Port		Watts	(4x) 2 W
U-NII Compliant		---	Yes
Isolation	Intraband	dB	25
	Interband	dB	28

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## 4U4MX065X06F<sub>xy</sub>s0

### 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)	10.9 (24)
Windload	Calculation	km/h (mph)	160 (100)
	Front	N (lbf)	309 (69)
	Side	N (lbf)	144 (32)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area	Front	m <sup>2</sup> (ft <sup>2</sup> )	0.25 (2.7)
	Side	m <sup>2</sup> (ft <sup>2</sup> )	0.11 (1.2)
Connector	Type	---	4.3-10 Female
	Quantity	---	16
	Position	---	Bottom
Radome Color		---	Grey
Operating Temperature		degrees	-40 to +60 C (-40 to +140 F)
Lightning Protection (Grounding Type)		---	Direct Ground

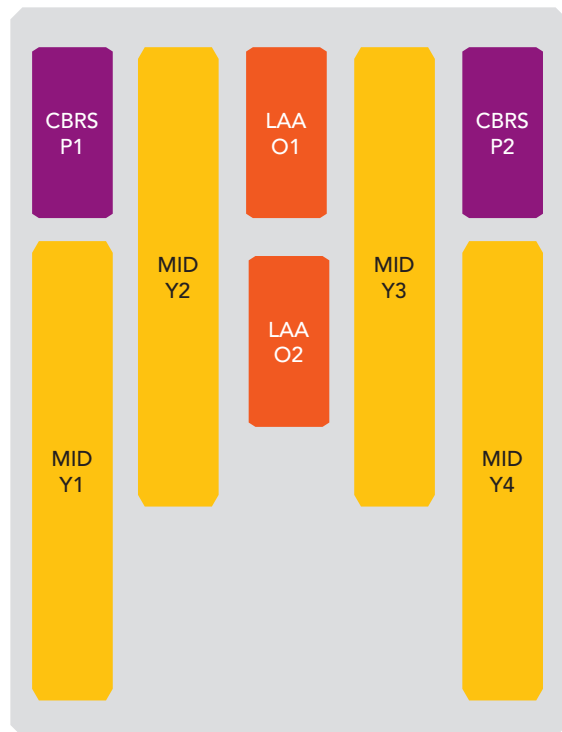


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## 4U4MX065X06F<sub>xy</sub>s0

### ARRAY LAYOUT Topology

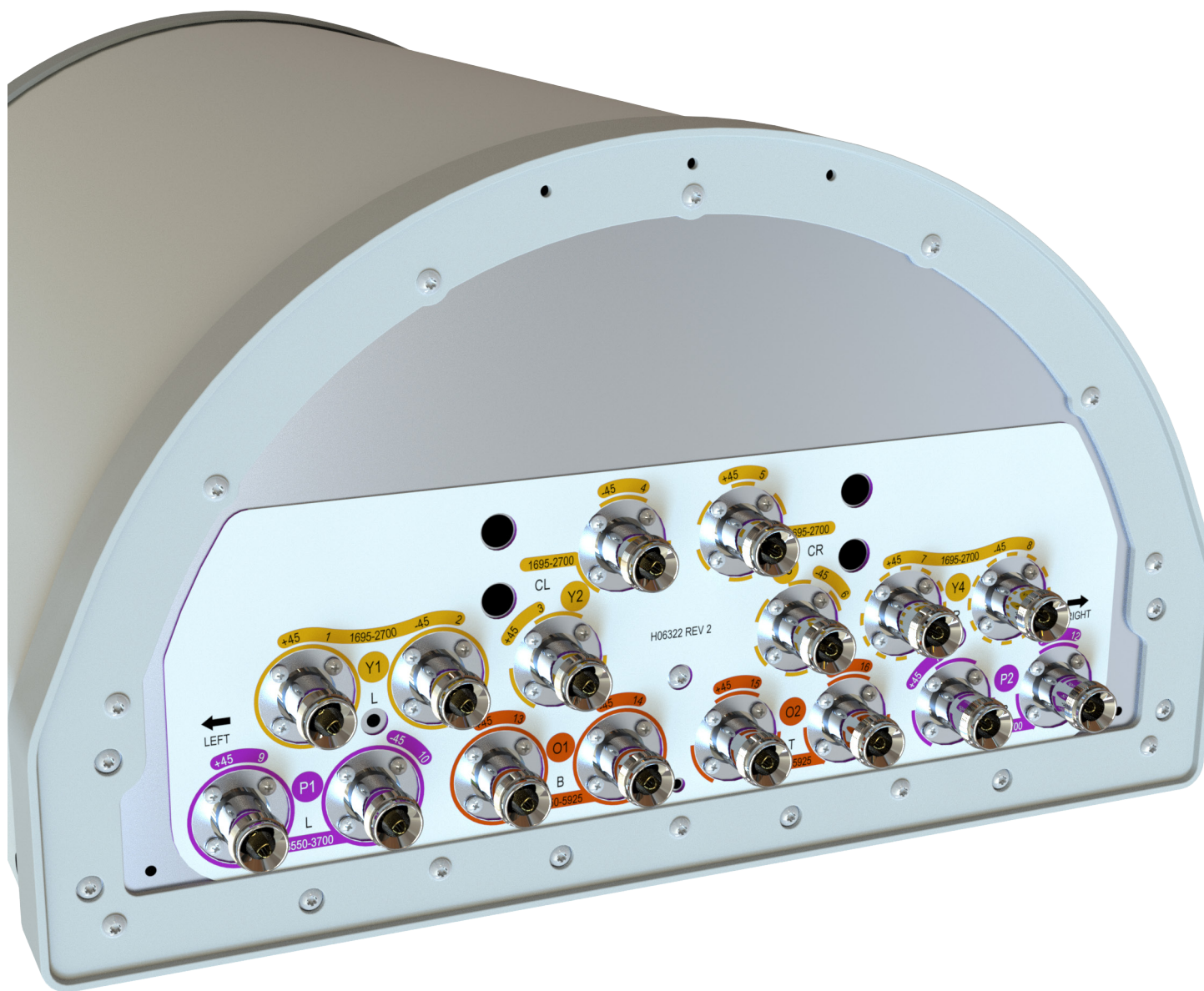
FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
MID BAND	1695-2700	■ Y1	1-2	(2x) 4.3-10 Female
	1695-2700	■ Y2	3-4	(2x) 4.3-10 Female
	1695-2700	■ Y3	5-6	(2x) 4.3-10 Female
	1695-2700	■ Y4	7-8	(2x) 4.3-10 Female
CBRS BAND	3550-3700	■ P1	9-10	(2x) 4.3-10 Female
	3550-3700	■ P2	11-12	(2x) 4.3-10 Female
LAA BAND	5150-5925	■ O1	13-14	(2x) 4.3-10 Female
	5150-5925	■ O2	15-16	(2x) 4.310 Female



The illustration is not shown to scale.

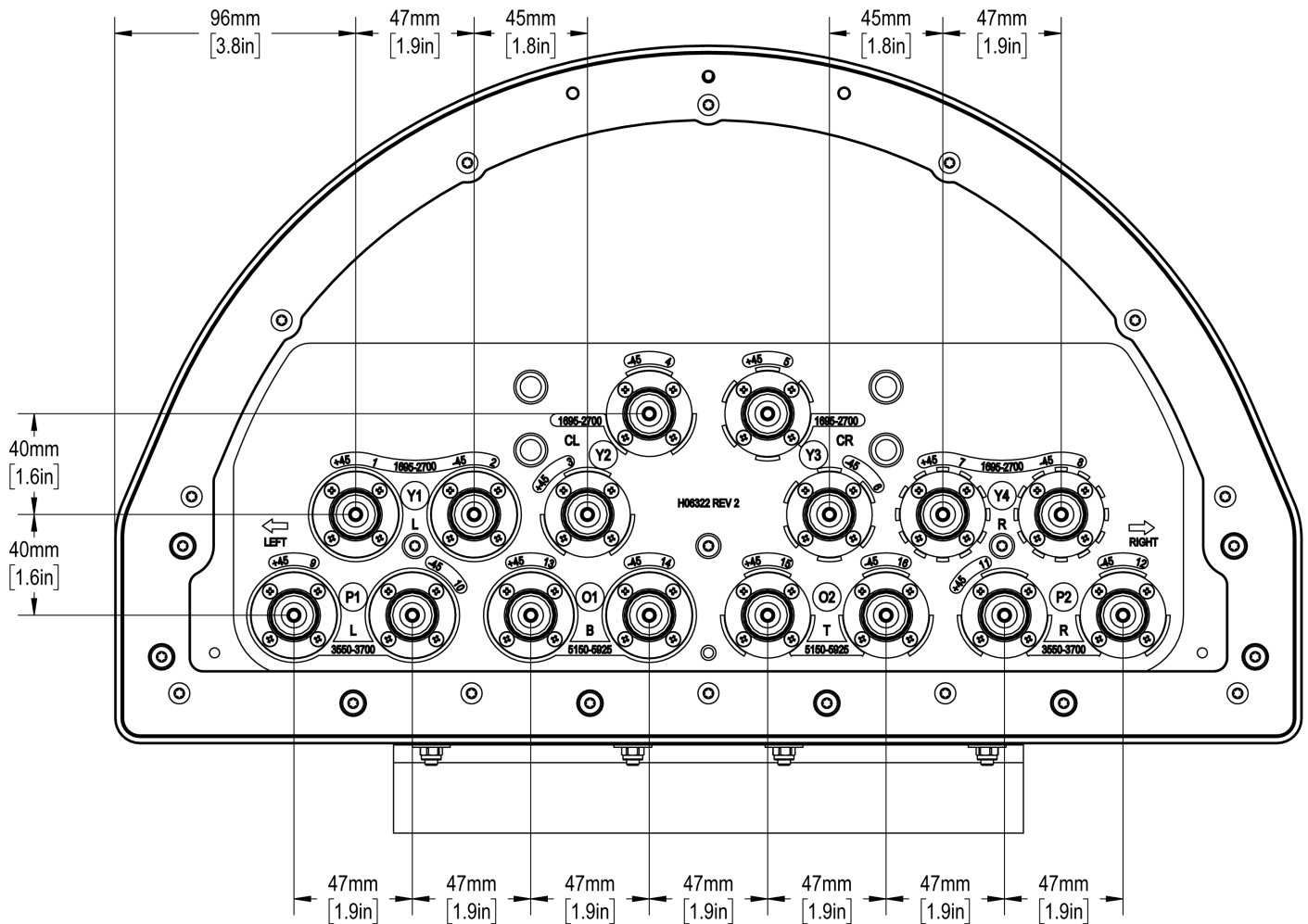
## 4U4MX065X06F<sub>xy</sub>s0

**BOTTOM VIEW - LABELING**



## 4U4MX065X06F<sub>xy</sub>s0

### BOTTOM VIEW - CONNECTOR DIAGRAM



### 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.

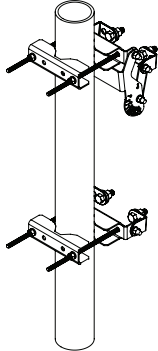
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4U4MX065X06F

xy

s0

**MOUNTING KITS**
 Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
36210006 	2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT	40-115 mm (1.57-4.5 in)	4.1 kg (9 lbs)



## 4U4MX065X06F<sup>xy</sup>s0

### HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BWWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION	
4U		4M		X	065	X	06	F	xy	s	0	-T
(4x) 1695-2700	(2x) 3550-3700	(2x) 5150-5925	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	Original Variation	To order the antenna and mounting kit together as one line item, add a -T 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.	

### ORDERING OPTIONS

Select from the following ordering options

SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	MID BAND	CBRS BAND	LAA BAND	
ANTENNA ONLY - NO MOUNTING KIT	2°	0°	0°	4U4MX065X06F <sup>20</sup> s0
	4°	0°	0°	4U4MX065X06F <sup>40</sup> s0
	6°	0°	0°	4U4MX065X06F <sup>60</sup> s0
	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	4U4MX065X06F <sup>AA</sup> s0
	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	4U4MX065X06F <sup>BB</sup> s0
	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	4U4MX065X06F <sup>CC</sup> s0
ANTENNA WITH 36210006 MOUNTING KIT  2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	2°	0°	0°	4U4MX065X06F <sup>20</sup> s0-T
	4°	0°	0°	4U4MX065X06F <sup>40</sup> s0-T
	6°	0°	0°	4U4MX065X06F <sup>60</sup> s0-T
	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	4U4MX065X06F <sup>AA</sup> s0-T
	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	4U4MX065X06F <sup>BB</sup> s0-T
	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	4U4MX065X06F <sup>CC</sup> s0-T

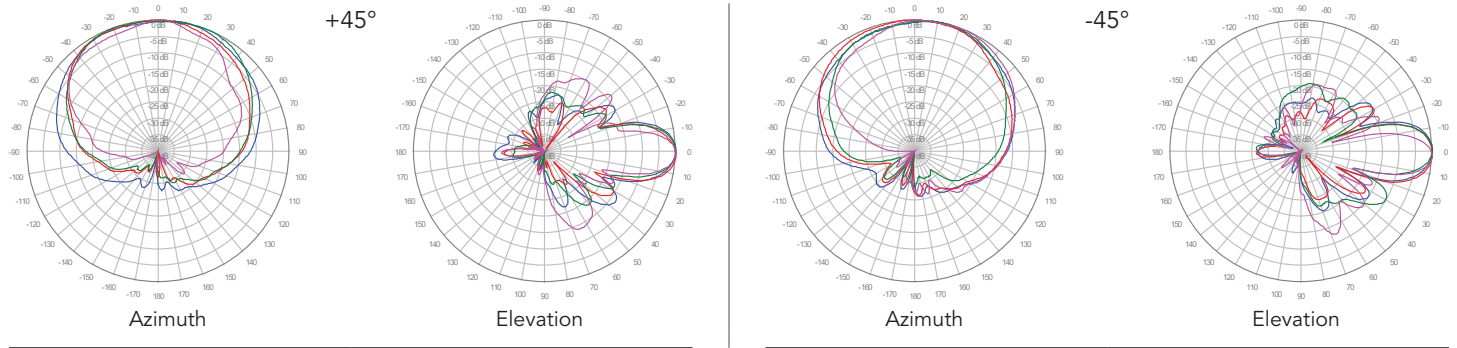
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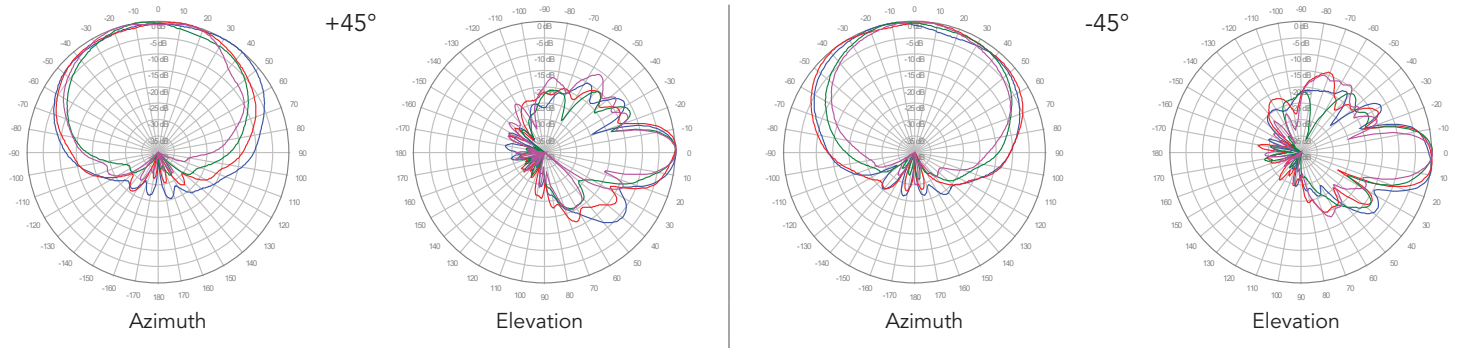
## 4U4MX065X06F<sub>xy</sub>s0

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

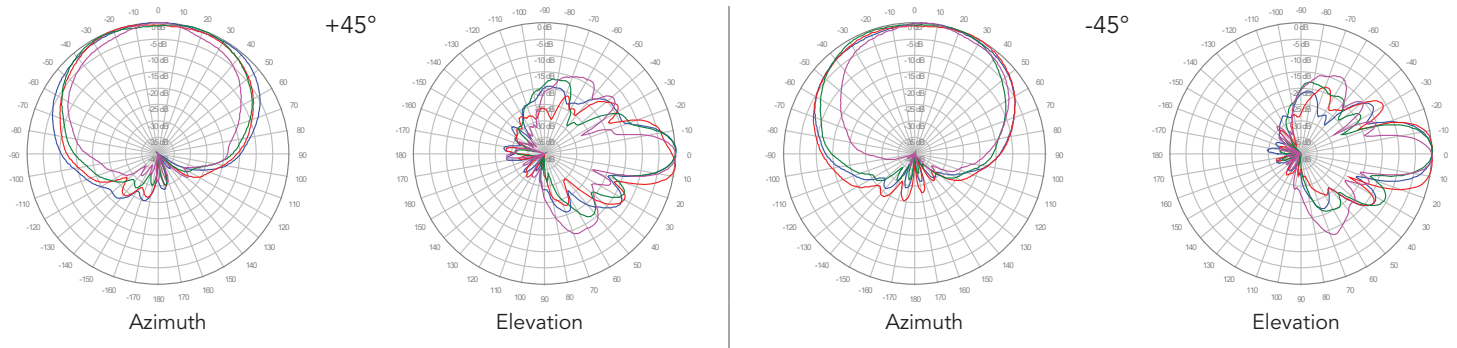
### Y1, 2° TILT



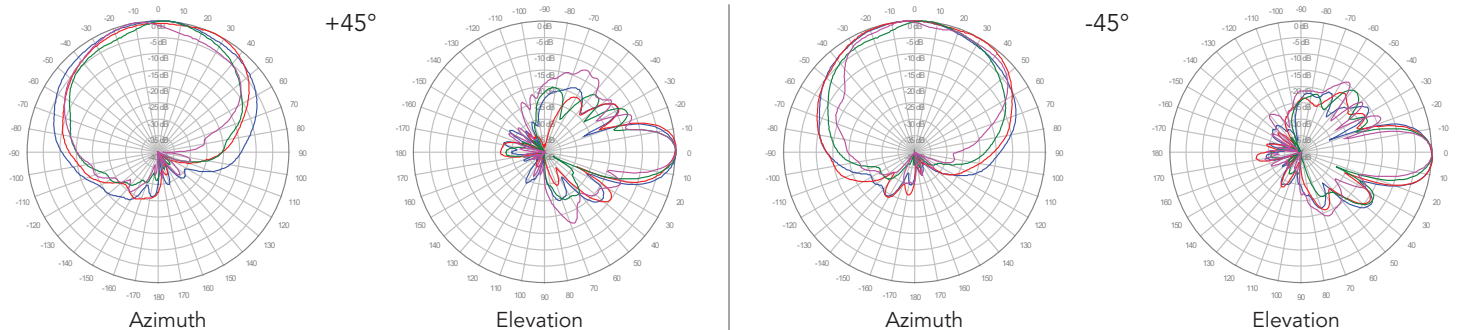
### Y2, 2° TILT



### Y3, 2° TILT



### Y4, 2° TILT

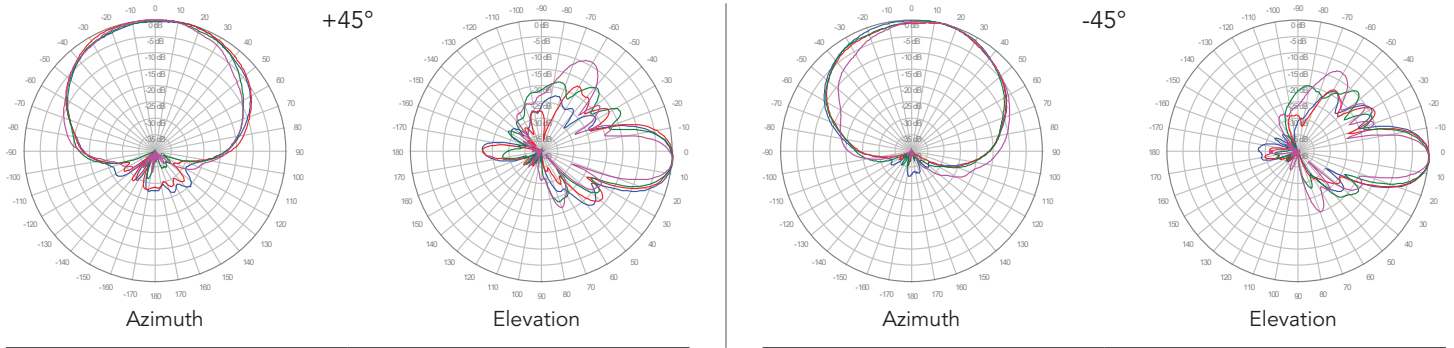


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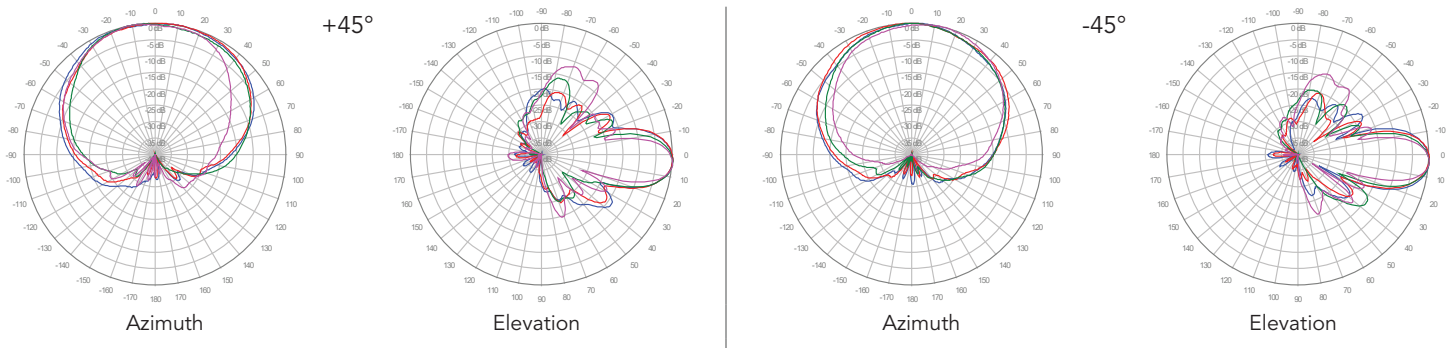
4U4MX065X06F<sub>xy</sub>s0

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

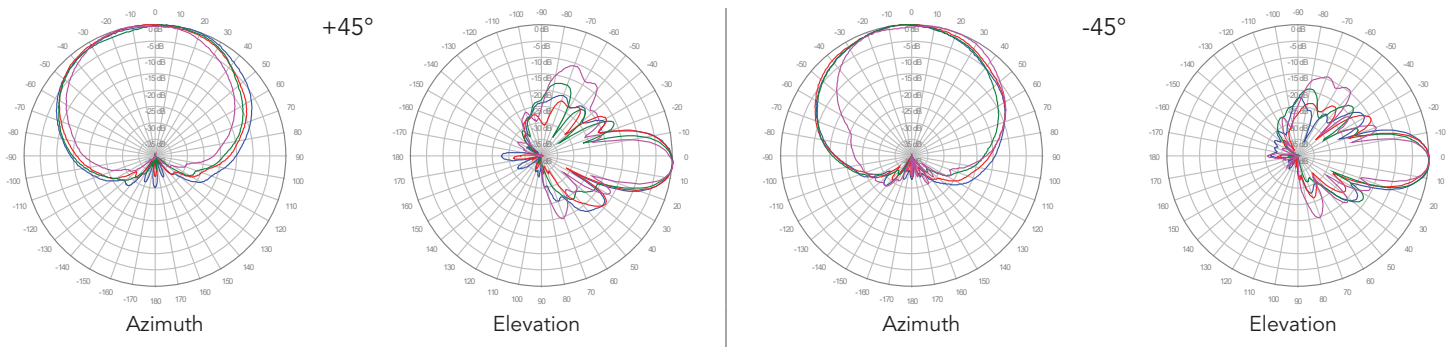
■ Y1, 4° TILT



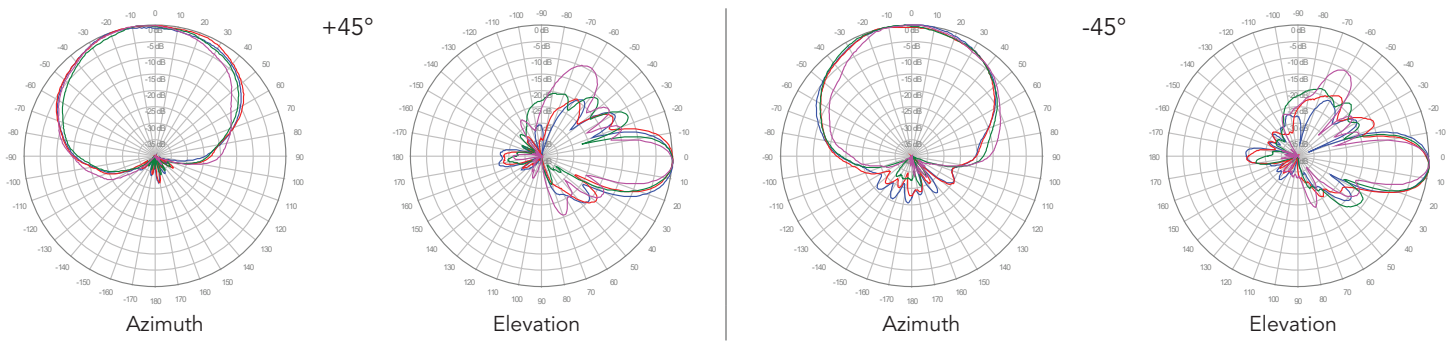
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

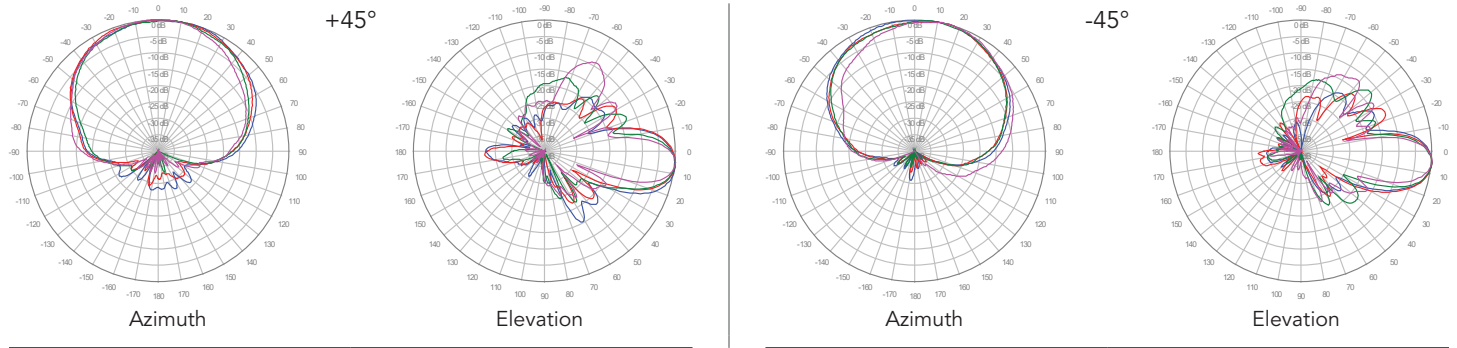


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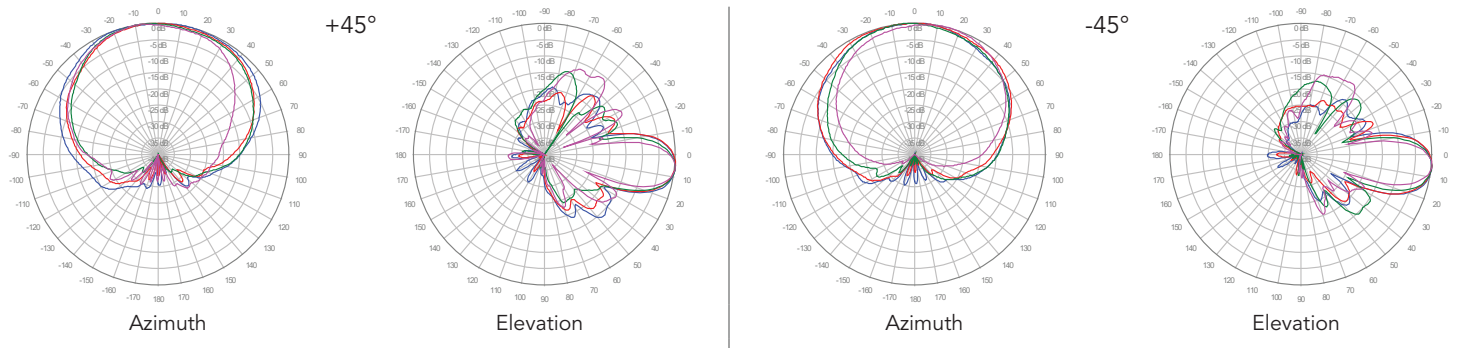
4U4MX065X06F<sub>xy</sub>s0

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

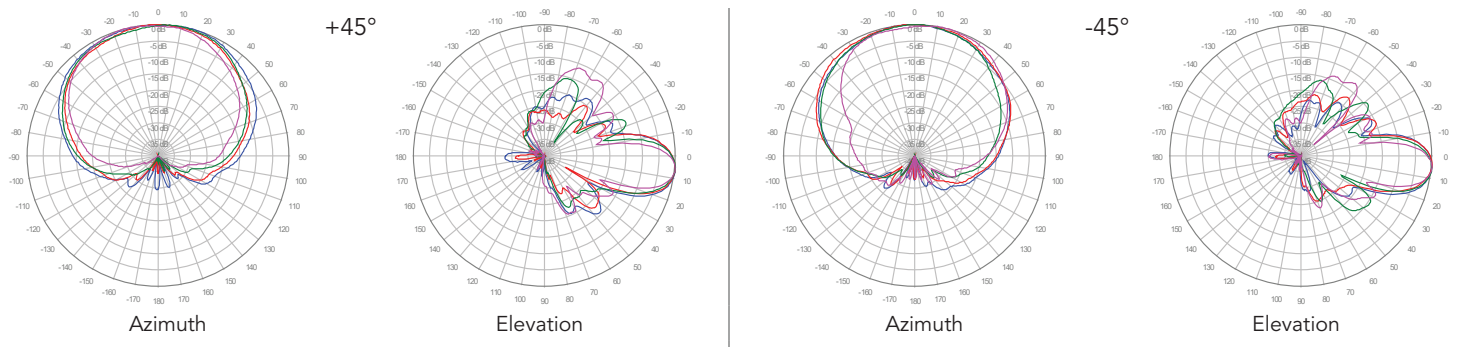
■ Y1, 6° TILT



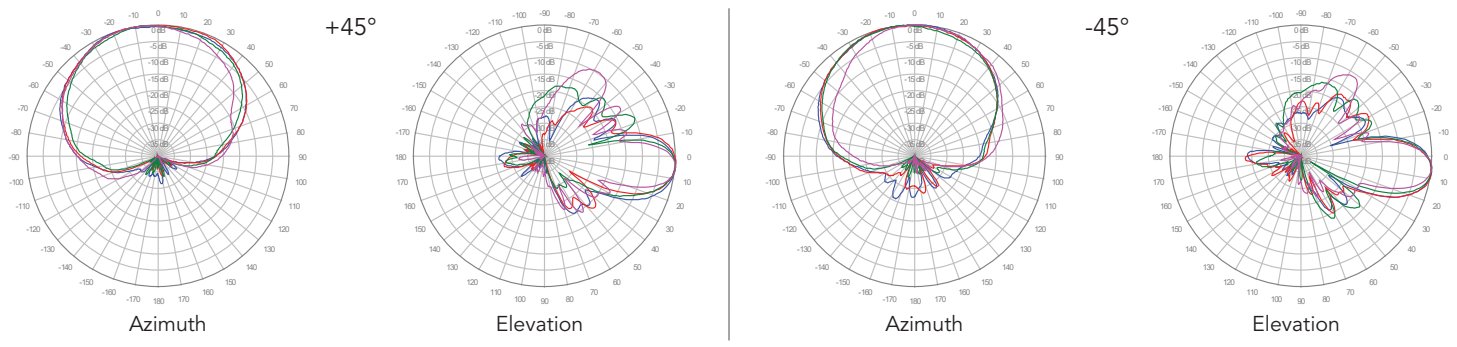
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT

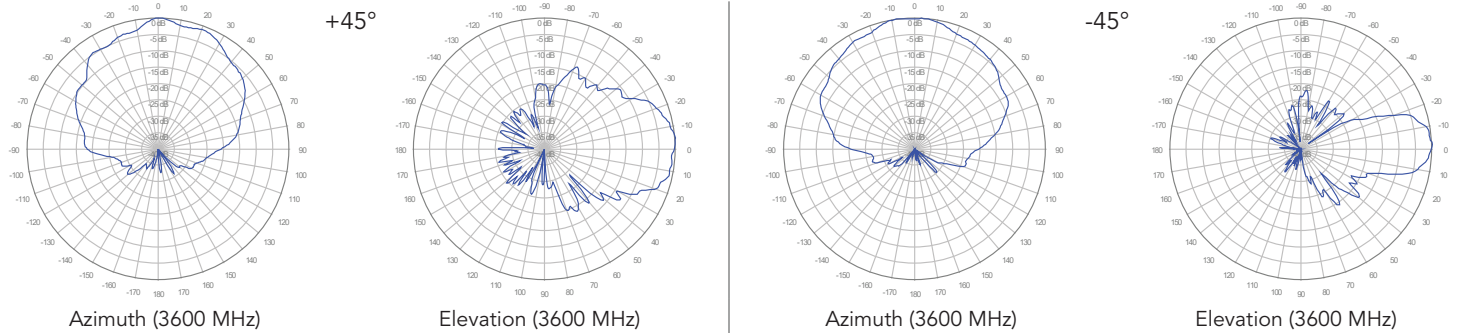


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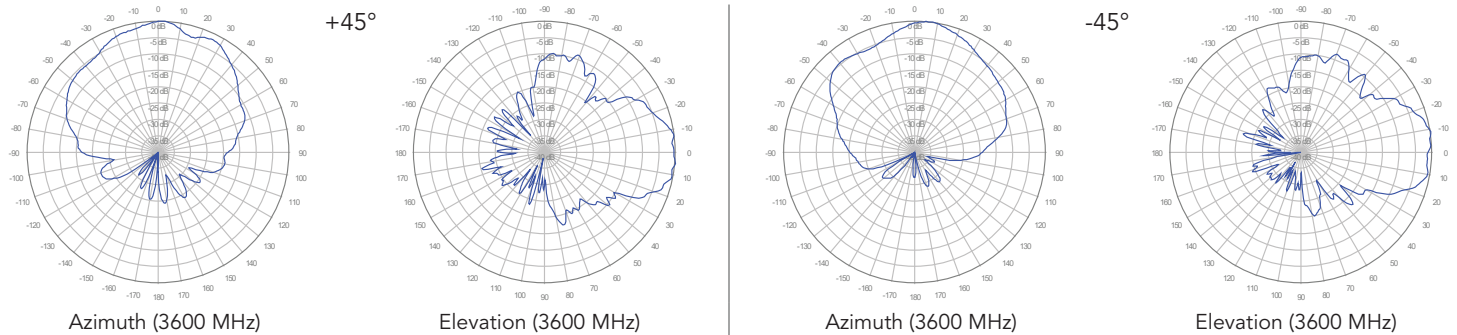


## 4U4MX065X06F<sub>xy</sub>s0

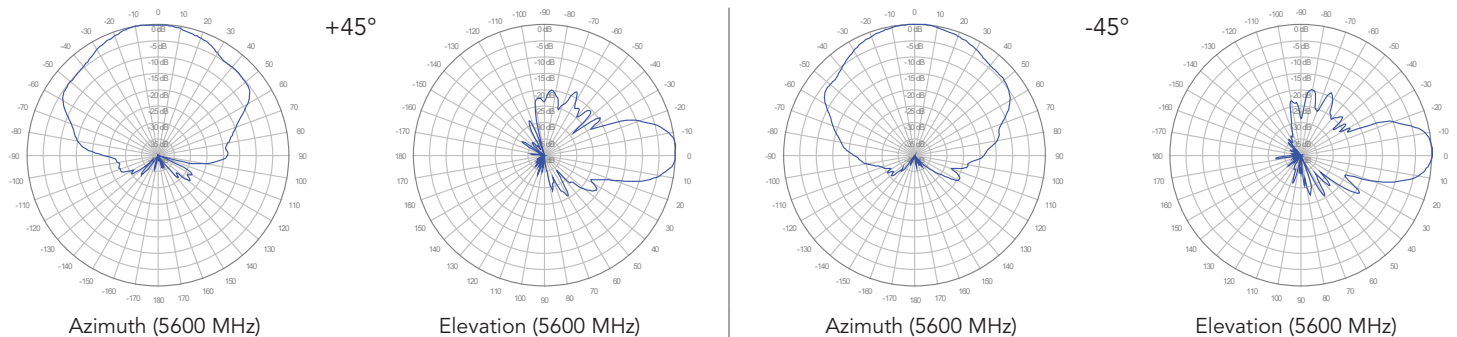
### P1, 0° TILT



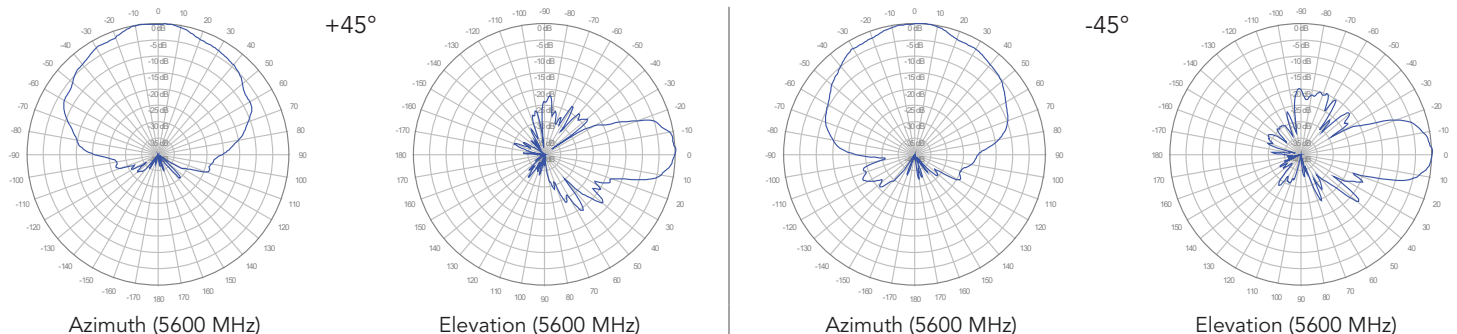
### P2, 0° TILT



### O1, 0° TILT



### O2, 0° TILT



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