

## 2C4U4MT360X06Fwxy<sub>s</sub>4



### Features

- Pseudo omni configuration with 20 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960 MHz, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- This antenna meets the requirements of the U-NII

PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925
	Array	■ R1, ■ R2	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2	■ O1, ■ O2
	Connector	4 PORTS	8 PORTS	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°	360°
	Electrical Downtilt	0°	0°, 2°, 4°, 6°	0°	0°
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS	50 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	5000 WATTS			
	Configuration	OMNI CONFIGURATION			
	Connector Type	(20x) 4.3-10 FEMALE			
	Dimensions	608 x Ø371 mm (24.0 x Ø14.6 in)			
	Radome Color Options	GREY, BROWN or BLACK			

### ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.2 ± 0.6	3.7 ± 0.7
	MAX	dBi	4.8	4.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	71.5° ± 15.1°	71.9° ± 13.5°
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	

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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) $\pm 45^\circ$			
Gain	BASTA	dBi	$7.5 \pm 0.7$	$7.4 \pm 0.8$	$7.2 \pm 0.9$	$7.4 \pm 0.9$
	MAX	dBi	8.2	8.2	8.1	8.3
Azimuth Beamwidth (3 dB)		degrees	$360^\circ$	$360^\circ$	$360^\circ$	$360^\circ$
Elevation Beamwidth (3 dB)		degrees	$34.2^\circ \pm 7.8^\circ$	$30.6^\circ \pm 7.0^\circ$	$30.4^\circ \pm 16.2^\circ$	$25.7^\circ \pm 6.3^\circ$
Electrical Downtilt		degrees	(x) $0^\circ, 2^\circ, 4^\circ, 6^\circ$			
Impedance		Ohms	50 $\Omega$			
VSWR		---	$\leq 1.5:1$			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

### ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-4200			
Polarization		---	(2x) $\pm 45^\circ$			
Gain	BASTA	dBi	$6.7 \pm 0.9$			
	MAX	dBi	7.6			
Azimuth Beamwidth (3 dB)		degrees	$360^\circ$			
Elevation Beamwidth (3 dB)		degrees	$27.2^\circ \pm 4.2^\circ$			
Electrical Downtilt		degrees	(y) $0^\circ$			
Impedance		Ohms	50 $\Omega$			
VSWR		---	$\leq 1.5:1$			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

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### ELECTRICAL SPECIFICATIONS

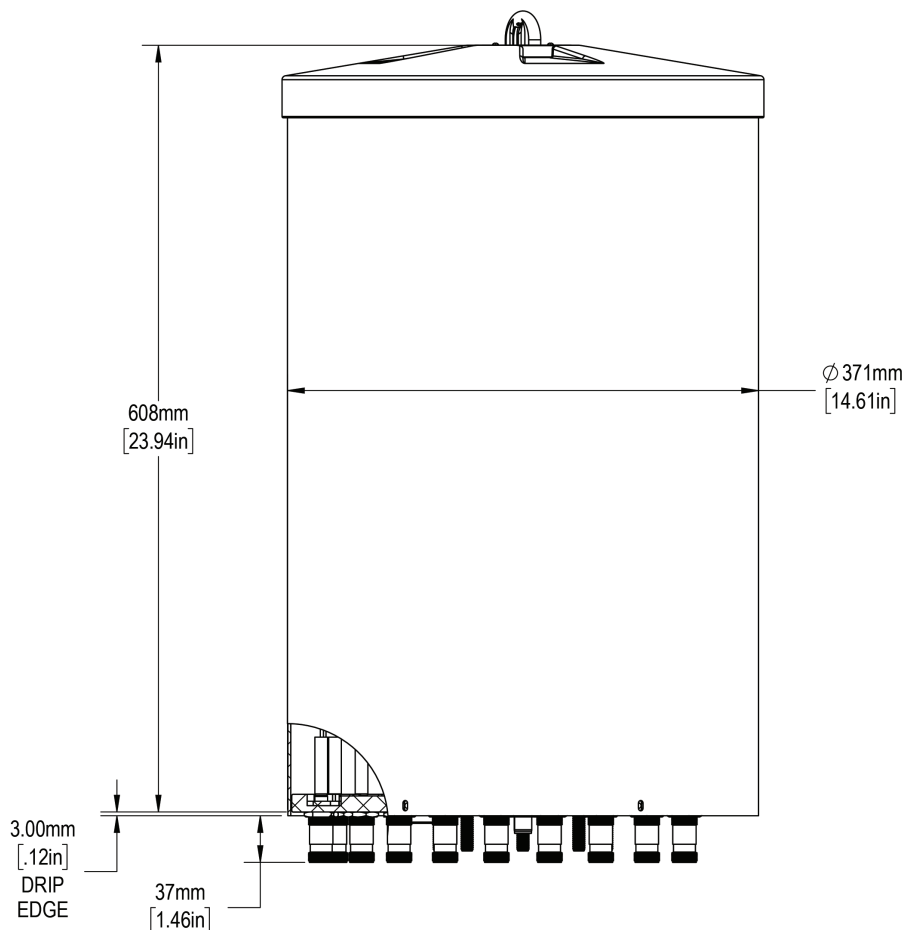
■ O1 ■ O2

Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) $\pm 45^\circ$
Gain	BASTA	dBi	$5.0 \pm 0.7$
	MAX	dBi	5.7
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	$20.5^\circ \pm 3.2^\circ$
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	$\leq 1.5:1$
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	> 13
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant		---	Yes

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### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	608 (24.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	13 (29.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m <sup>2</sup> (ft <sup>2</sup> )	0.22 (2.4)
Volume		m <sup>3</sup> (ft <sup>3</sup> )	0.07 (2.3)
Connector	Type	---	(20x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground



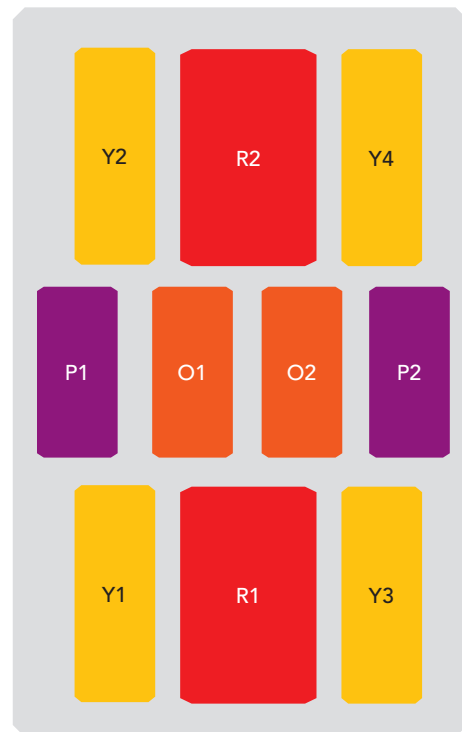
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### ARRAY LAYOUT Topology

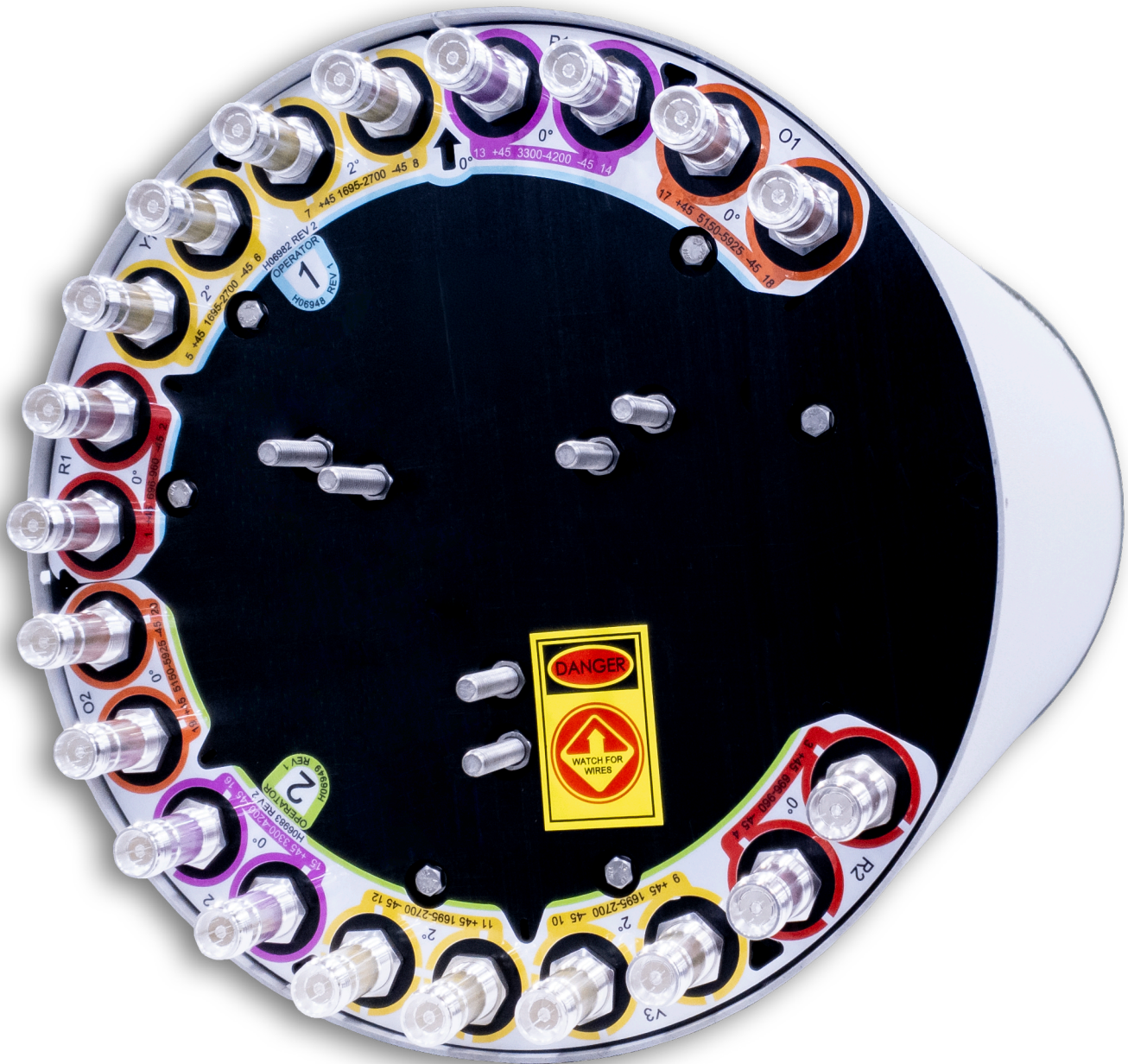
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	<span style="color: red;">■</span> R1	1-2	(2x) 4.3-10 Female
696-960 MHz	<span style="color: red;">■</span> R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y4	11-12	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P1	13-14	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P2	15-16	(2x) 4.3-10 Female
5150-5925 MHz	<span style="color: orange;">■</span> O1	17-18	(2x) 4.3-10 Female
5150-5925 MHz	<span style="color: orange;">■</span> O2	19-20	(2x) 4.3-10 Female



*The illustration is not shown to scale.*

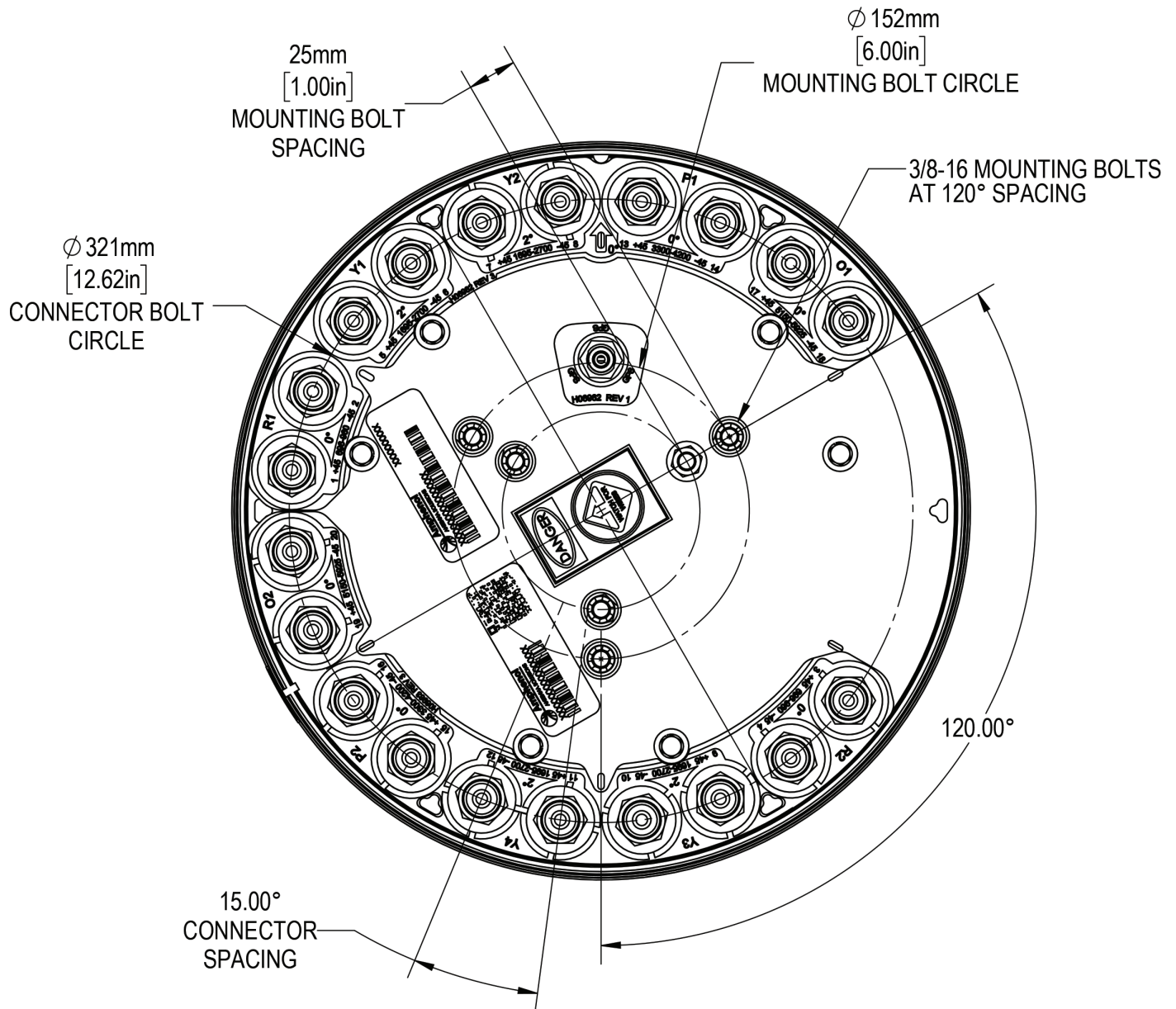
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### BOTTOM VIEW - LABELING



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### BOTTOM VIEW - CONNECTOR DIAGRAM



### 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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**MOUNTING KITS** Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

MODEL NUMBER		DESCRIPTION
CWT-MKS-SIDE		SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-TOP		TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA
WB3X-MKS-01		UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-BASE-xx		WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE.

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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 BEAMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	4U	4M		T	360	X	06	F	wxy	s	4	BK BR
(2x) 696-960	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Tri-Sector	360°	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	4th generation enhanced mechanical package	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.



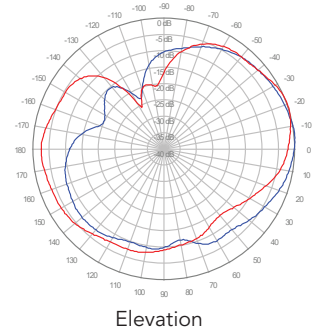
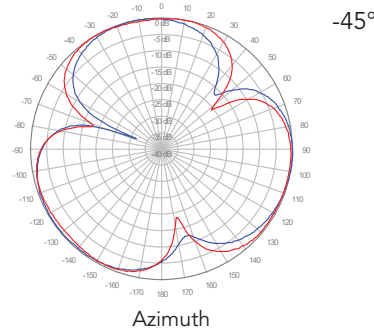
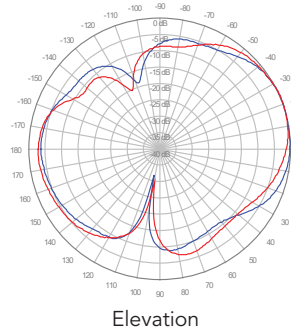
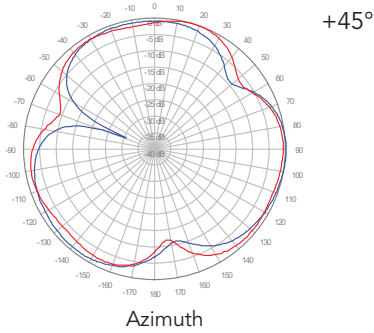
## 2C4U4MT360X06Fwxys4

### ORDERING OPTIONS Select from the following ordering options

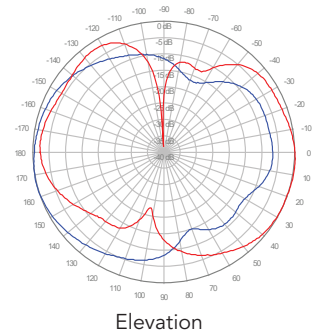
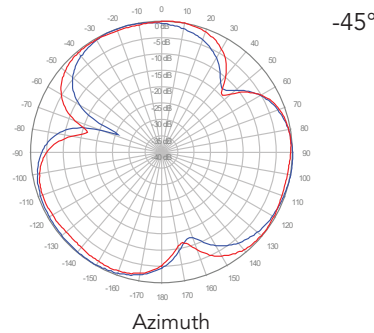
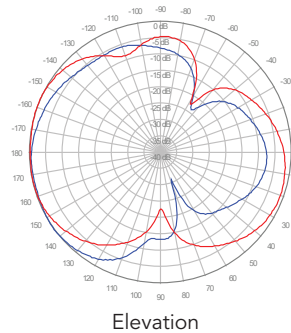
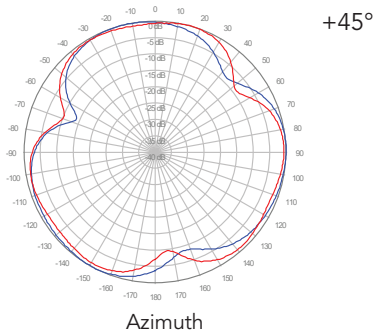
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey RAL 7035	0°	0°	0°	0°	2C4U4MT360X06F000s4
	0°	2°	0°	0°	2C4U4MT360X06F020s4
	0°	4°	0°	0°	2C4U4MT360X06F040s4
	0°	6°	0°	0°	2C4U4MT360X06F060s4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U4MT360X06FAAAs4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U4MT360X06FBBBs4
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U4MT360X06FCCCs4
Brown RAL 8022	0°	0°	0°	0°	2C4U4MT360X06F000s4BR
	0°	2°	0°	0°	2C4U4MT360X06F020s4BR
	0°	4°	0°	0°	2C4U4MT360X06F040s4BR
	0°	6°	0°	0°	2C4U4MT360X06F060s4BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U4MT360X06FAAAs4BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U4MT360X06FBBBs4BR
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U4MT360X06FCCCs4BR
Black RAL 9011	0°	0°	0°	0°	2C4U4MT360X06F000s4BK
	0°	2°	0°	0°	2C4U4MT360X06F020s4BK
	0°	4°	0°	0°	2C4U4MT360X06F040s4BK
	0°	6°	0°	0°	2C4U4MT360X06F060s4BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U4MT360X06FAAAs4BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U4MT360X06FBBBs4BK
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U4MT360X06FCCCs4BK

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### R1, 0° TILT



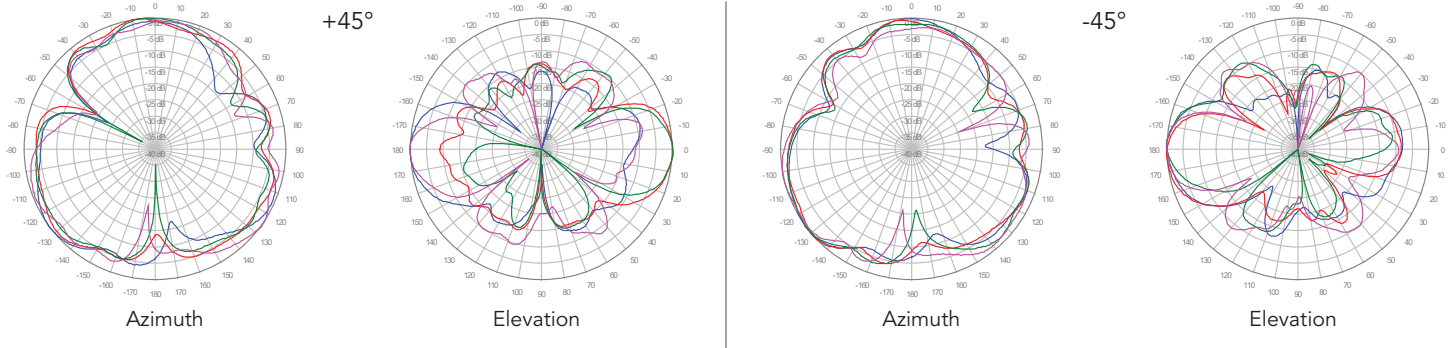
### R2, 0° TILT



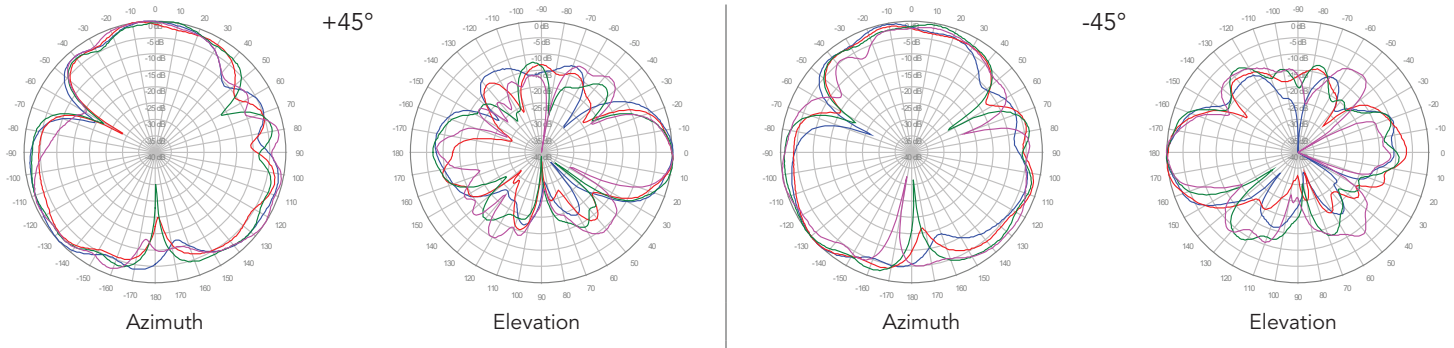
## 2C4U4MT360X06Fwxys4

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

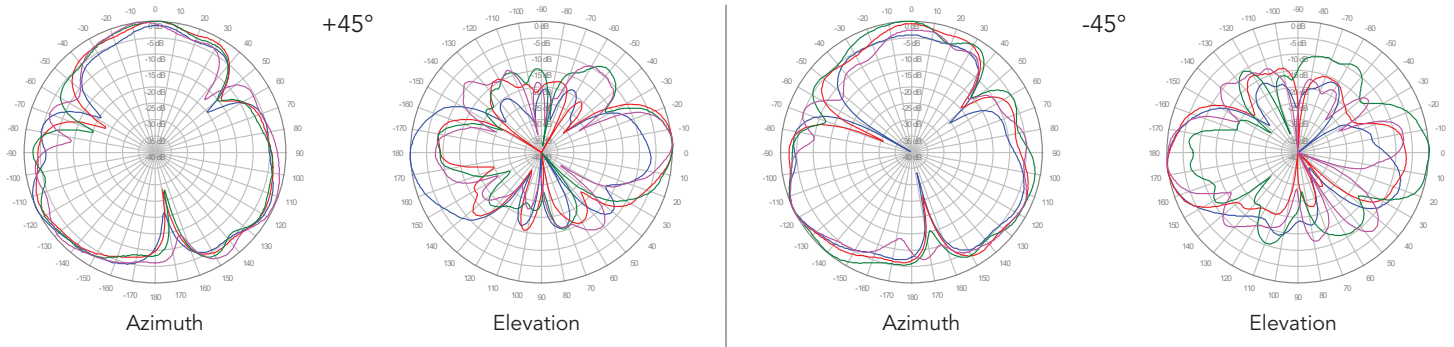
### Y1, 2° TILT



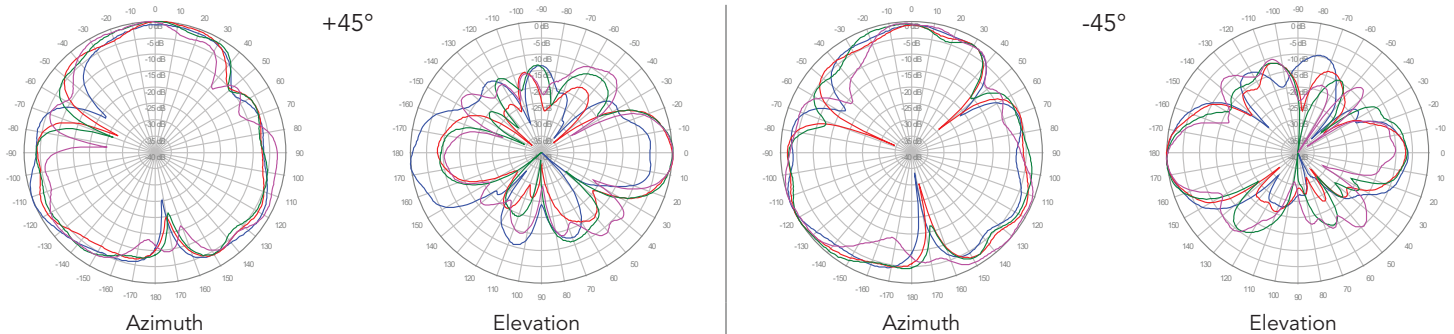
### Y2, 2° TILT



### Y3, 2° TILT



### Y4, 2° TILT



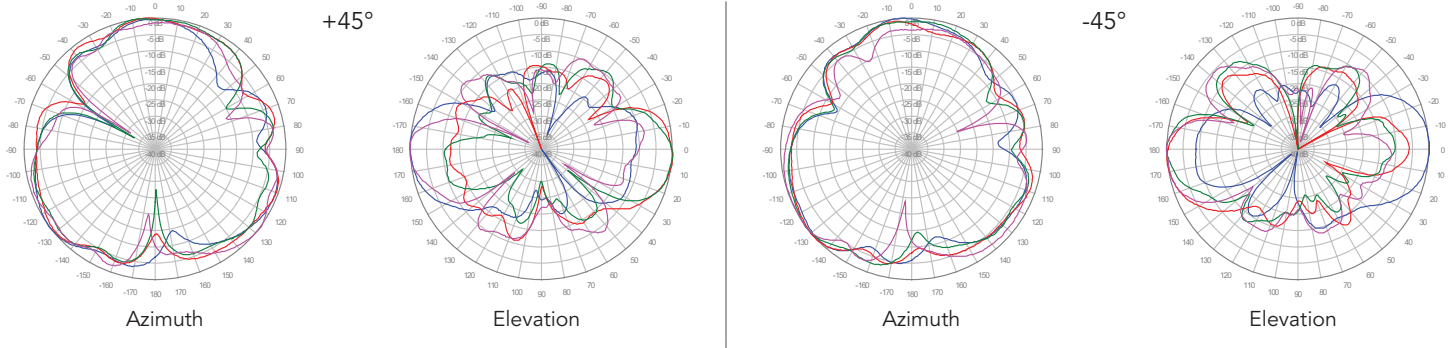
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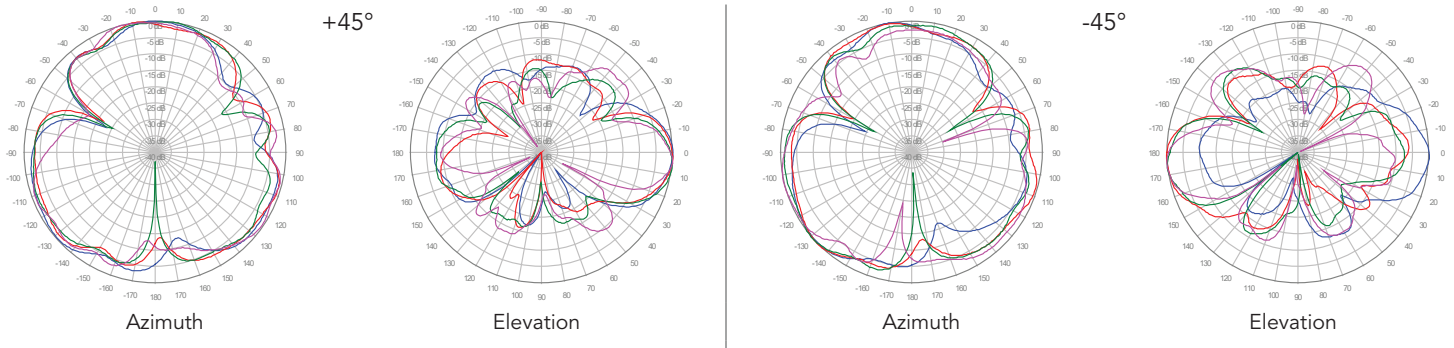
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1800 MHz —  
1900 MHz —  
2100 MHz —  
2600 MHz —

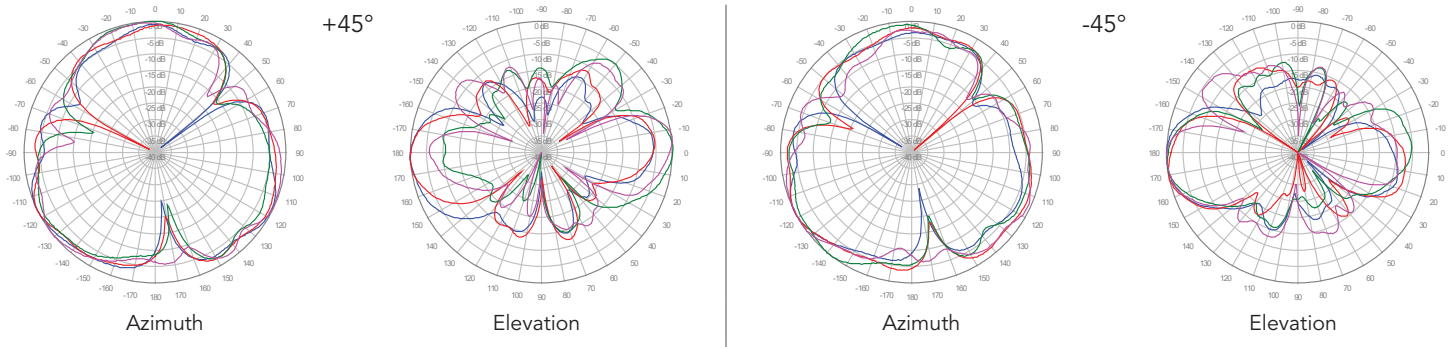
### Y1, 4° TILT



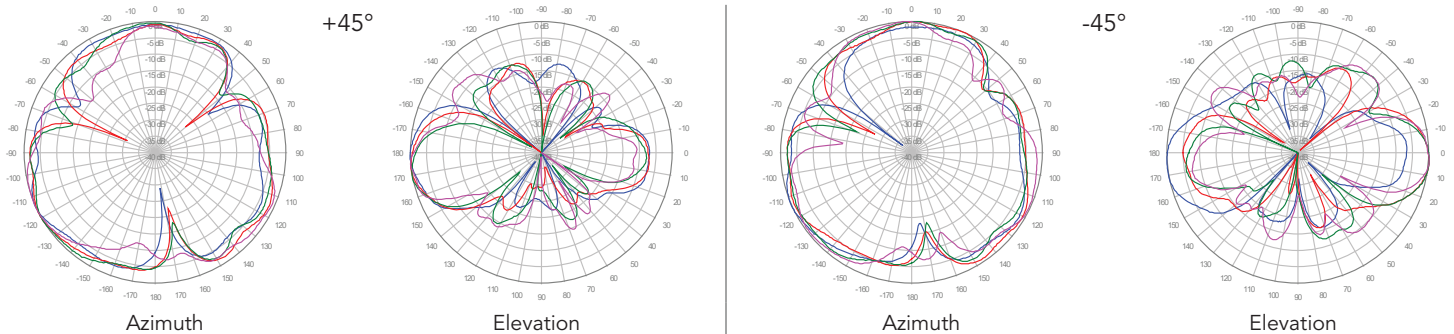
### Y2, 4° TILT



### Y3, 4° TILT



### Y4, 4° TILT

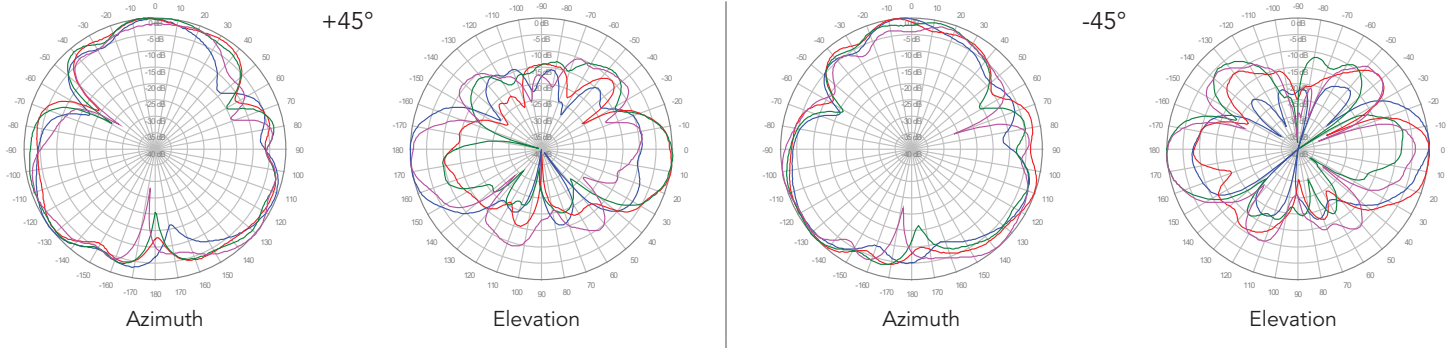


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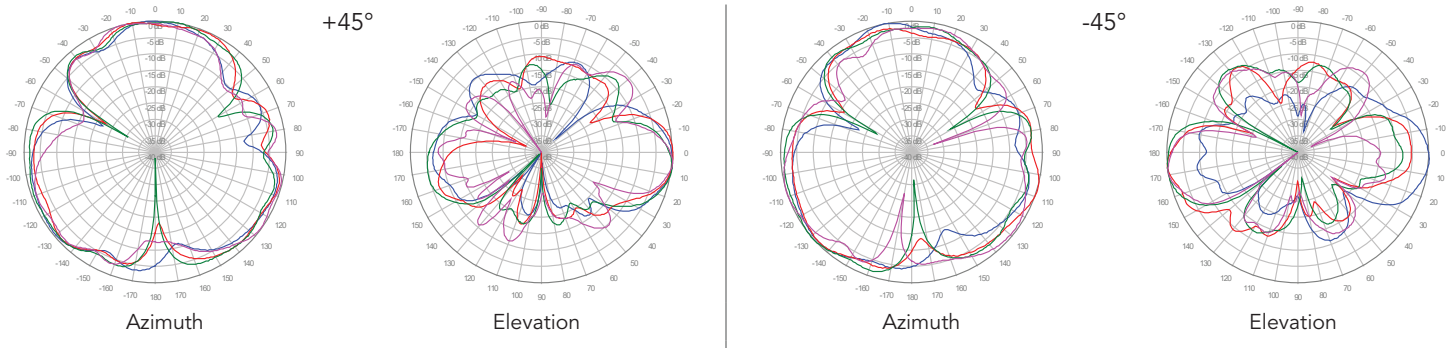
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1800 MHz —  
1900 MHz —  
2100 MHz —  
2600 MHz —

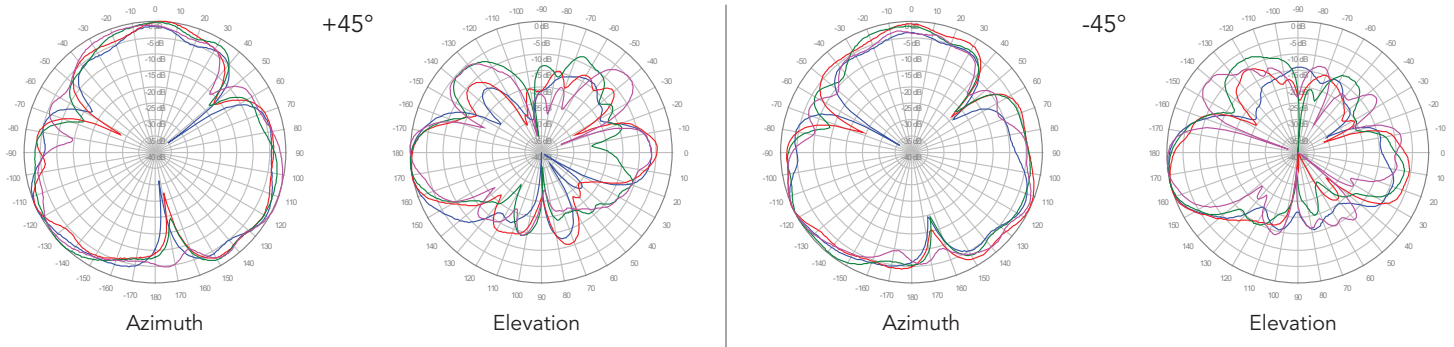
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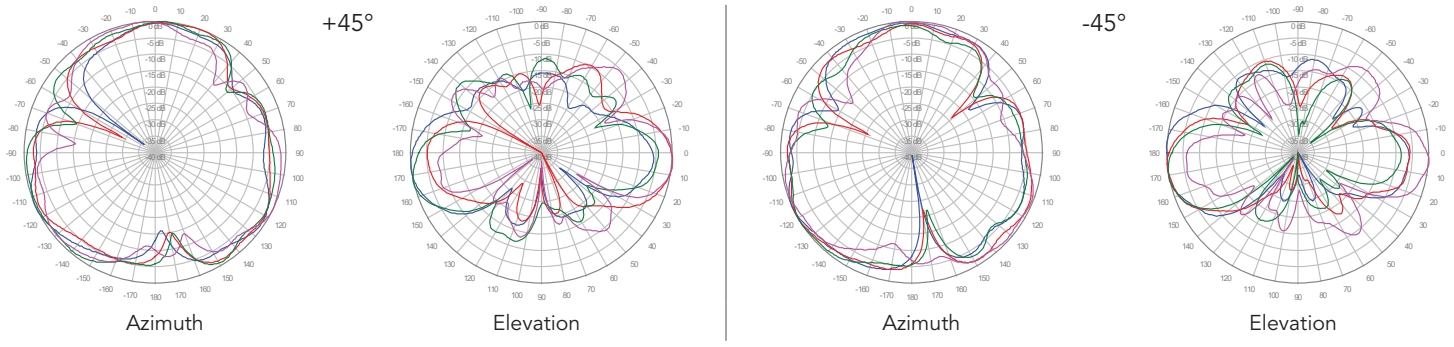
### Y2, 6° TILT



### Y3, 6° TILT



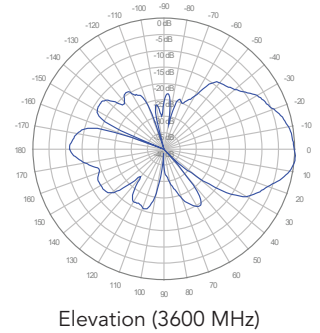
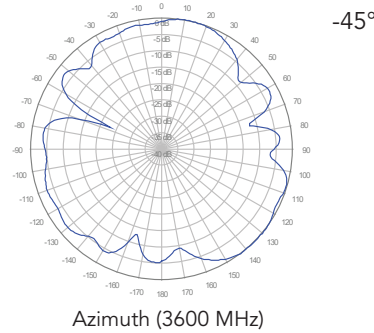
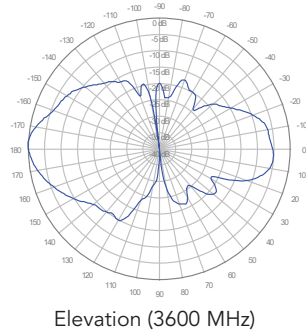
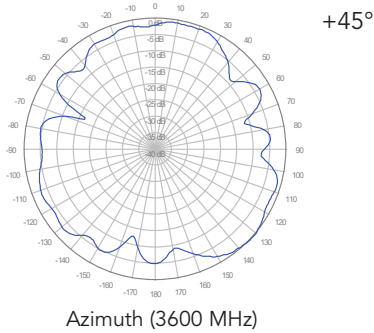
### Y4, 6° TILT



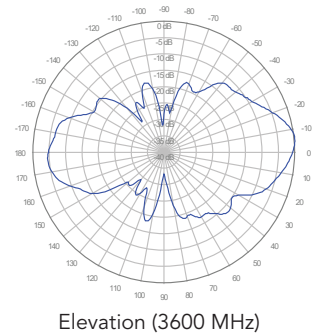
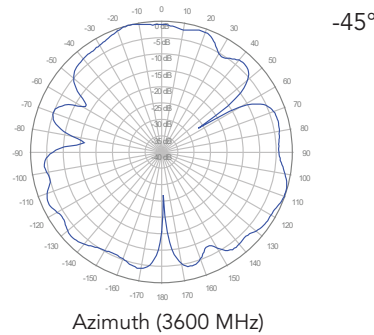
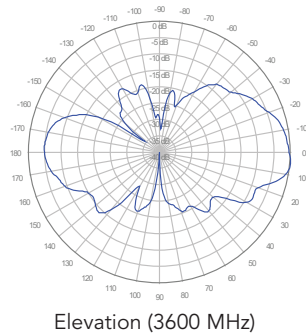
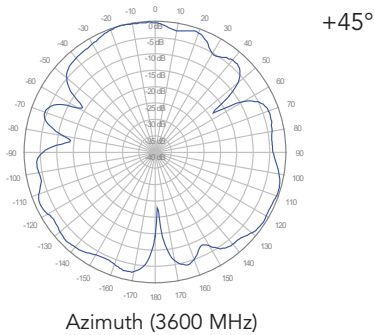
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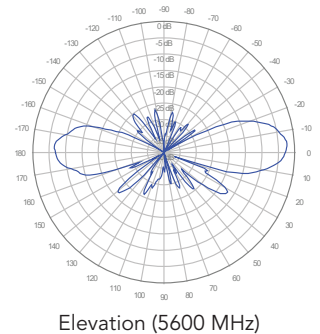
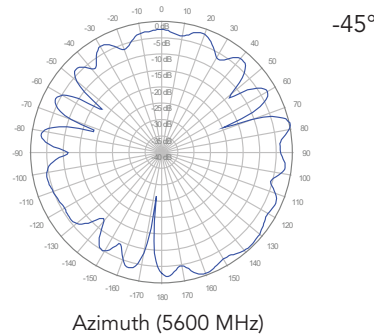
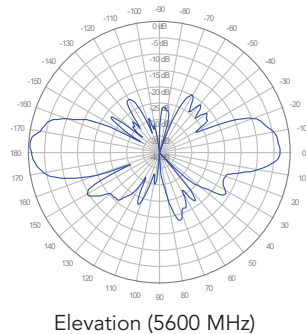
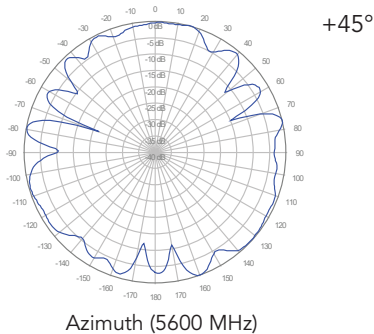
### P1, 0° TILT



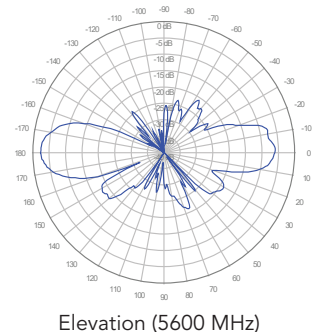
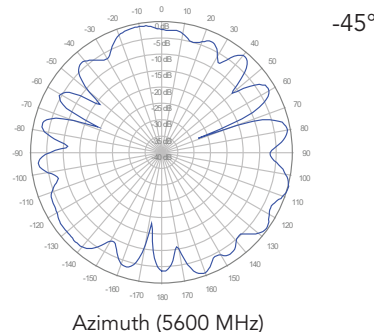
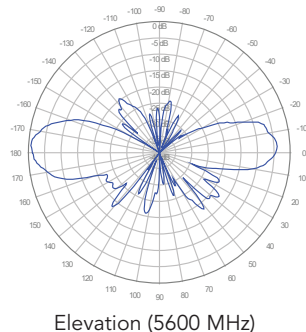
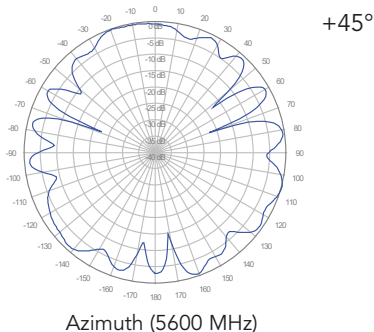
### P2, 0° TILT



### O1, 0° TILT



### O2, 0° TILT



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