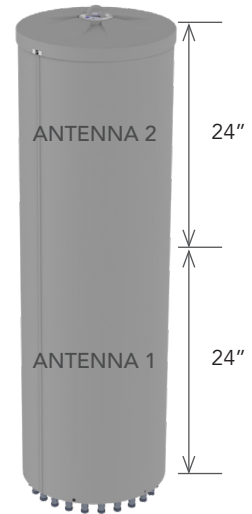


2C6U4MT360X12Fwxys4



Features

- Pseudo omni configuration with 24 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Can be ordered with an integrated GPS unit
- This antenna meets the requirements of the U-NII

PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Optional GPS BAND 1575.42 ± 10
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2	■ O1 ■ O2	---
	Connector	4 PORTS	12 PORTS	4 PORTS	4 PORTS	1 PORT
	Polarization	XPOL	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
	Azimuth Beamwidth (avg)	360°	360°	360°	360°	---
	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°	---
	Configuration	OMNI CONFIGURATION				---
	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)	6200 WATTS				---
	Connector Type	(24x) 4.3-10 FEMALE				(1x) N-TYPE FEMALE
Dimensions	1208.4 x Ø371 mm (47.6 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	4.1 ± 0.5	3.4 ± 0.7
	MAX	dBi	4.6	4.1
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	69.4° ± 14.2°	70.9° ± 13.3°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	N/A	N/A
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	

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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	8.0 ± 0.6	8.3 ± 0.5	8.4 ± 0.6	9.2 ± 0.7
	MAX	dBi	8.6	8.8	9.0	9.9
Azimuth Beamwidth (3 dB)	degrees	360°				
Elevation Beamwidth (3 dB)	degrees	21.5° ± 3.0°	19.5° ± 1.7°	18.6° ± 1.9°	15.5° ± 2.1°	
Electrical Downtilt	degrees	(x) 2°, 4°, 6°				
Impedance	Ohms	50				
VSWR	---	≤ 1.5:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	< -153				
Upper Sidelobe Suppression	dB	N/A	N/A	N/A	N/A	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range	MHz	(2x) 3300-4200	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	5.8 ± 0.5
	MAX	dBi	6.3
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	26.4 ± 6.1°	
Electrical Downtilt	degrees	(y) 0°	
Impedance	Ohms	50	
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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2C6U4MT360X12FwxyS4

ELECTRICAL SPECIFICATIONS

■ O1 ■ O2

Frequency Range	MHz	(2x) 5150-5925	
Polarization	---	(2x) $\pm 45^\circ$	
Gain	BASTA	dBi	5.2 ± 0.8
	MAX	dBi	6.0
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	$20.6^\circ \pm 3.0^\circ$	
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	> 11	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant	---	Yes	

INTEGRATED GPS UNIT OPTIONAL

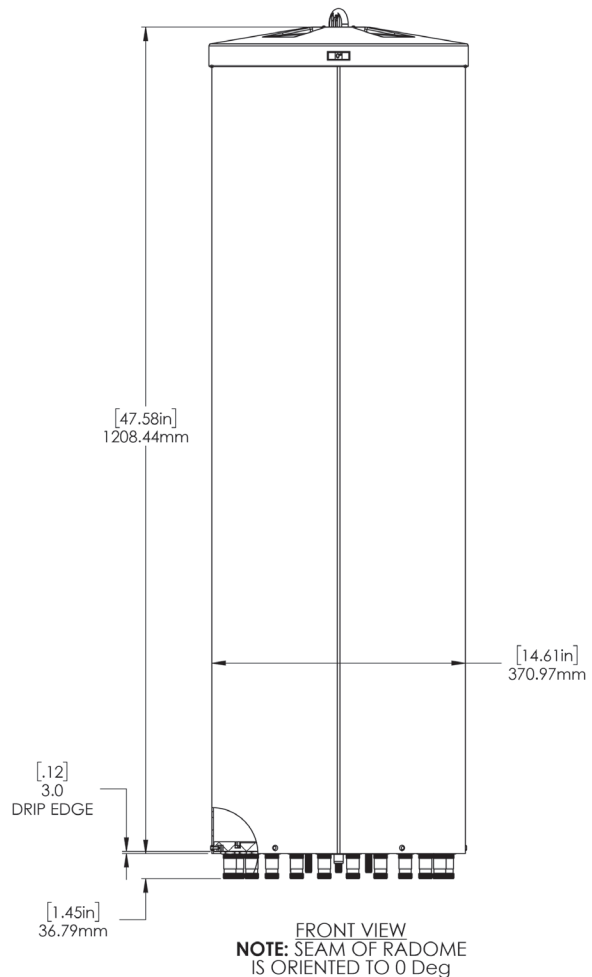
Frequency Range	1575.42 MHz \pm 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB \pm 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR	< 2.0:1
Connector	N-Type Female

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MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	1208.4 (47.6)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	20.4 (45.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.47 (5.0)
Volume	Total	m ³ (ft ³)	0.13 (4.7)
	Each Antenna	m ³ (ft ³)	0.065 (2.33)
Connector	Type	---	(24x) 4.3-10 Female; (1x) N-Type Female with optional GPS Unit
	Position	---	Bottom
Radome Color		---	Grey (Pantone 420 C) Brown (Pantone 476 C) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

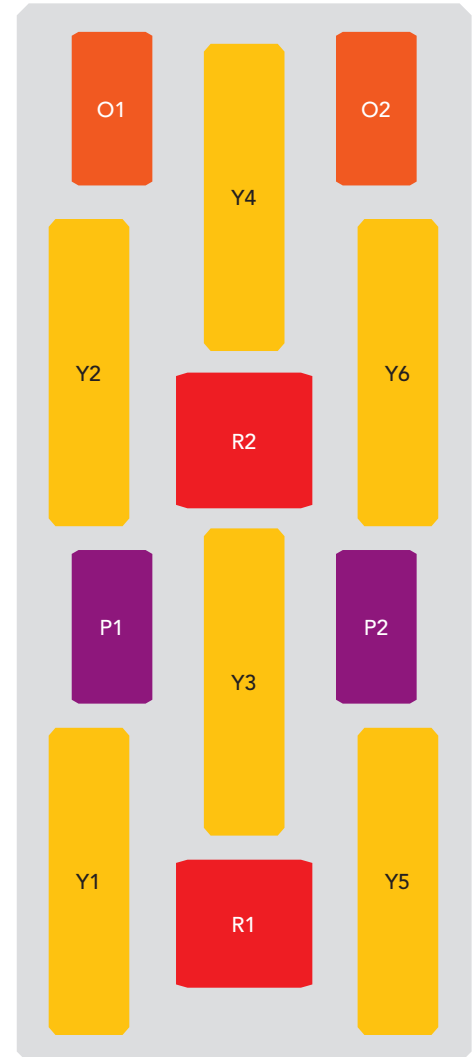


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2C6U4MT360X12Fwxys4

ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
696-960 MHz	■ R1	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
1695-2700 MHz	■ Y5	13-14	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	19-20	(2x) 4.3-10 Female
5150-5925 MHz	■ O1	21-22	(2x) 4.3-10 Female
5150-5925 MHz	■ O2	23-24	(2x) 4.310 Female
Optional GPS BAND 1575.42 MHz	---	---	(1x) N-Type Female



The illustration is not shown to scale.

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2C6U4MT360X12Fwxys4

BOTTOM VIEW - LABELING

Image shows the N-Type Connector for the optional **INTEGRATED GPS UNIT**.

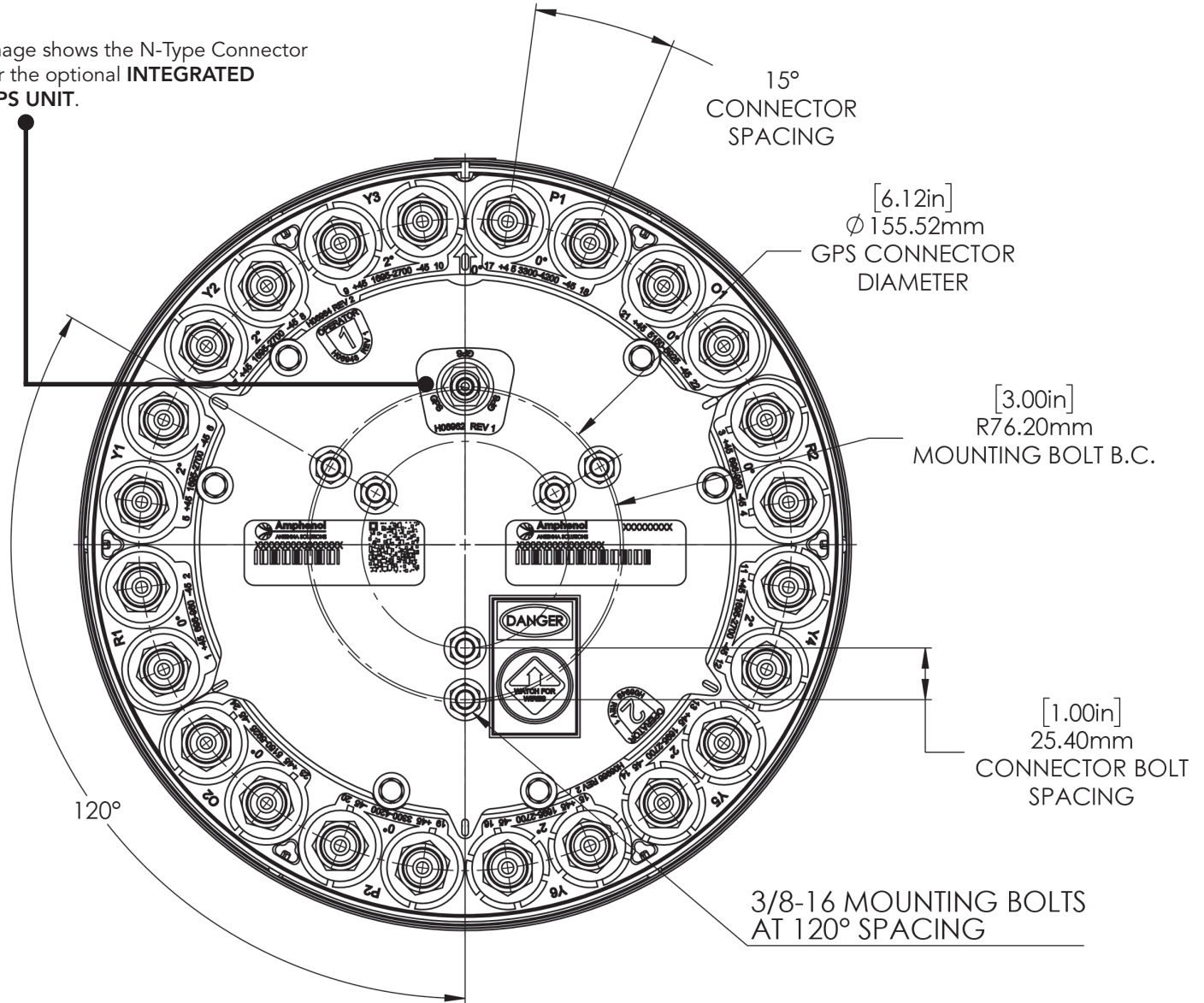


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2C6U4MT360X12Fwxys4

BOTTOM VIEW - CONNECTOR DIAGRAM

Image shows the N-Type Connector for the optional **INTEGRATED GPS UNIT**.



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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2C6U4MT360X12Fwxys4

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

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2C6U4MT360X12Fwxy_s4

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

NUMBER OF BANDS & OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS
2C	6U	4M		T	360	X	12	F	wxy	s	4	BK BR	-GPS
(2x) 696-960	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Tri-Sector	360°	XPOL	1.2 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.	Indicates an integrated GPS unit

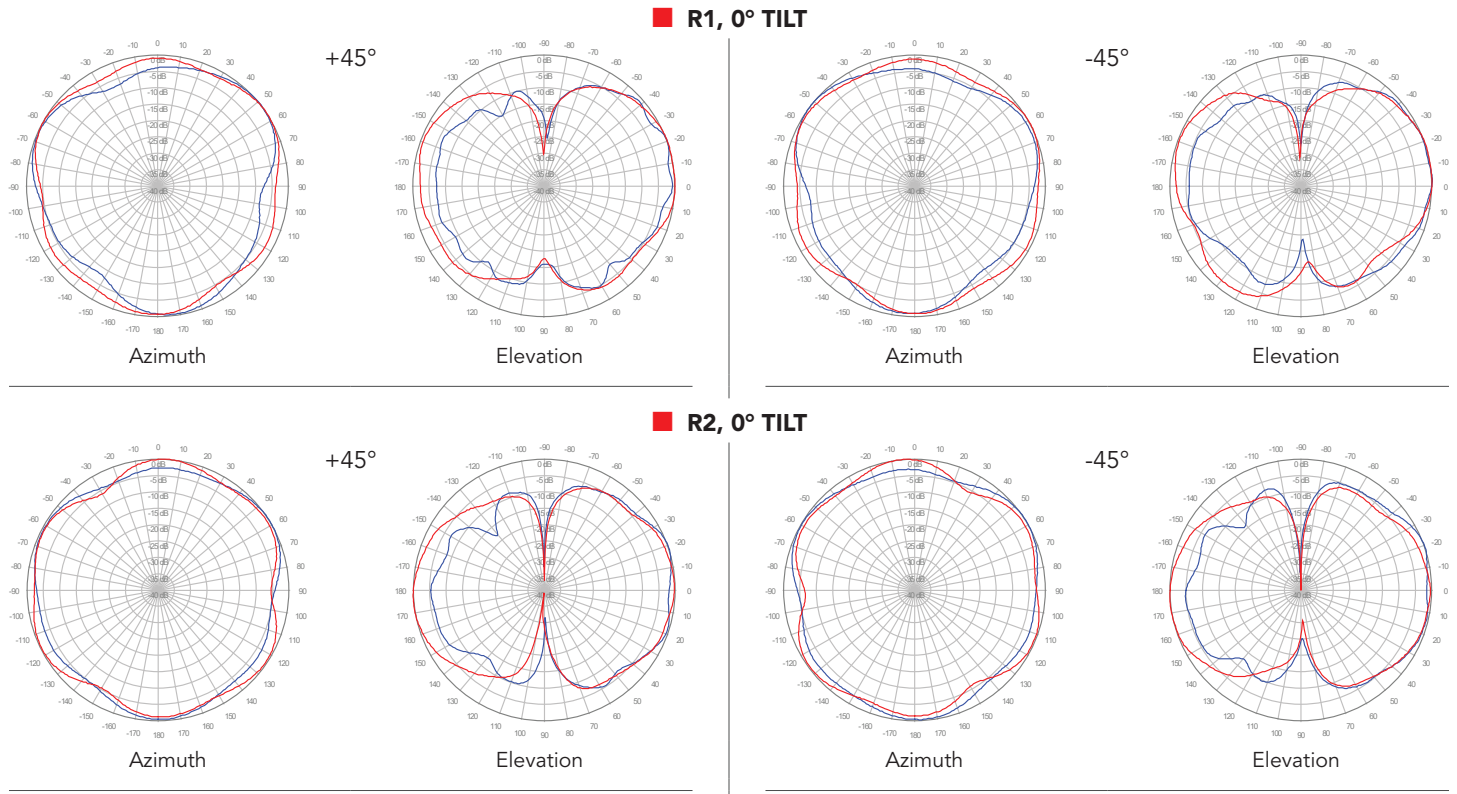
ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				SELECT ANTENNA TYPE	
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey Pantone 420 C	0°	2°	0°	0°	2C6U4MT360X12F020s4	2C6U4MT360X12F020s4-GPS
	0°	4°	0°	0°	2C6U4MT360X12F040s4	2C6U4MT360X12F040s4-GPS
	0°	6°	0°	0°	2C6U4MT360X12F060s4	2C6U4MT360X12F060s4-GPS
	0°	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	2C6U4MT360X12FAAAs4	2C6U4MT360X12FAAAs4-GPS
Brown Pantone 476 C	0°	2°	0°	0°	2C6U4MT360X12F020s4BR	2C6U4MT360X12F020s4BR-GPS
	0°	4°	0°	0°	2C6U4MT360X12F040s4BR	2C6U4MT360X12F040s4BR-GPS
	0°	6°	0°	0°	2C6U4MT360X12F060s4BR	2C6U4MT360X12F060s4BR-GPS
	0°	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	2C6U4MT360X12FAAAs4BR	2C6U4MT360X12FAAAs4BR-GPS
Black RAL 9011	0°	2°	0°	0°	2C6U4MT360X12F020s4BK	2C6U4MT360X12F020s4BK-GPS
	0°	4°	0°	0°	2C6U4MT360X12F040s4BK	2C6U4MT360X12F040s4BK-GPS
	0°	6°	0°	0°	2C6U4MT360X12F060s4BK	2C6U4MT360X12F060s4BK-GPS
	0°	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	2C6U4MT360X12FAAAs4BK	2C6U4MT360X12FAAAs4BK-GPS

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2C6U4MT360X12Fwxys4

750 MHz ————
850 MHz ————

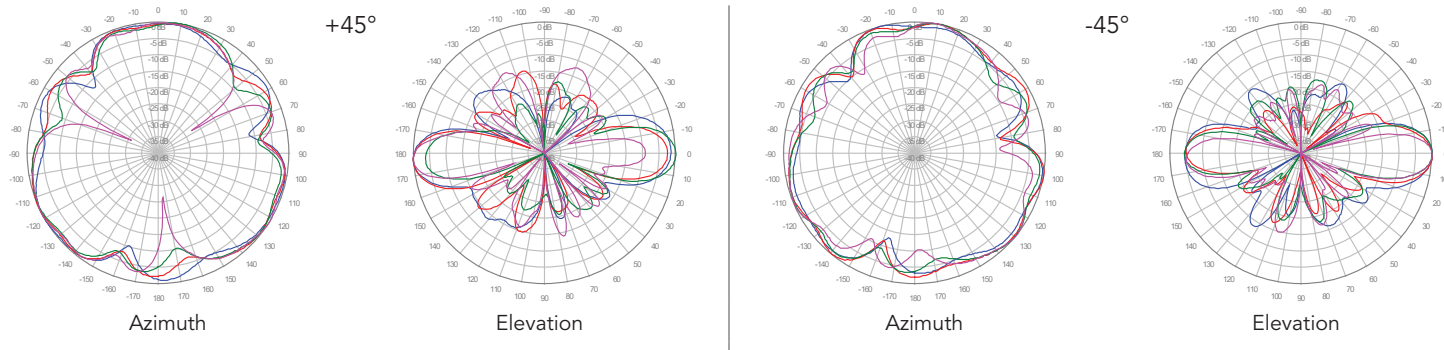


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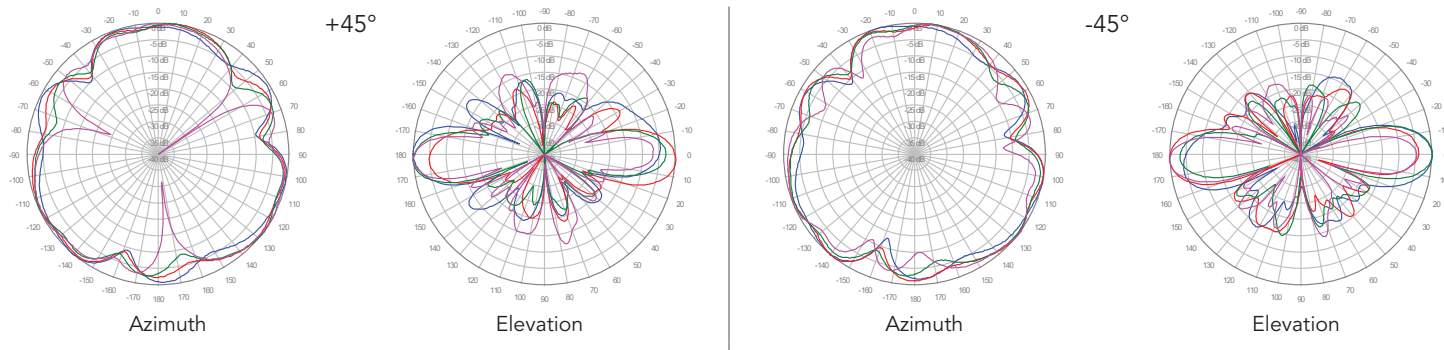
2C6U4MT360X12Fwxys4

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

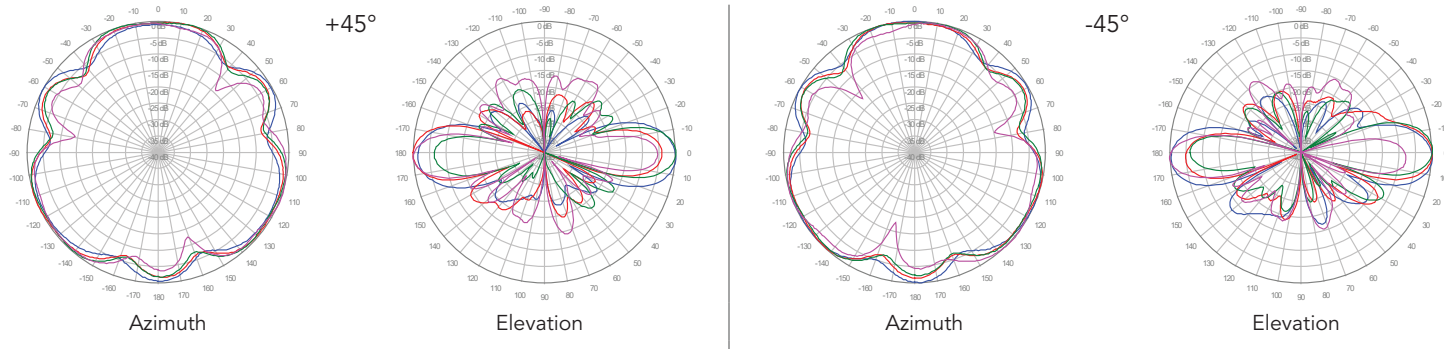
■ Y1, 2° TILT



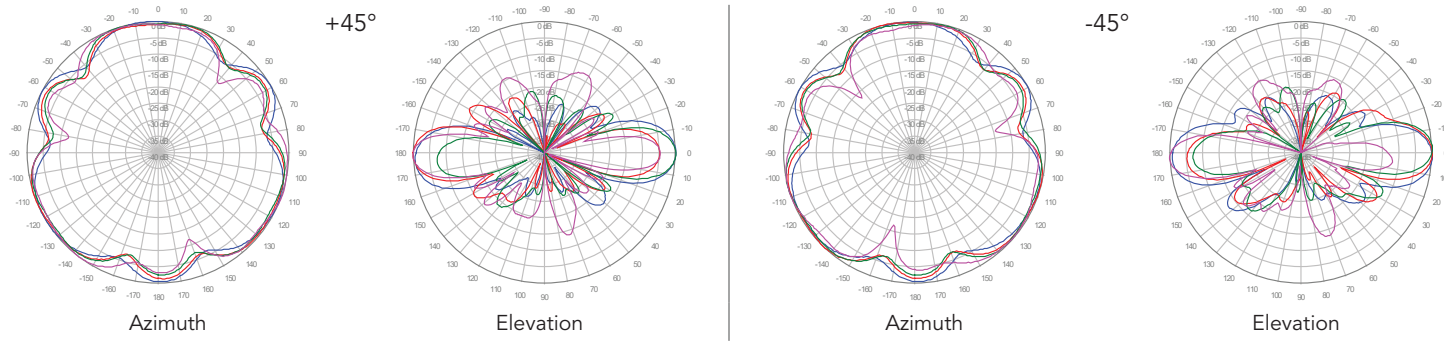
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

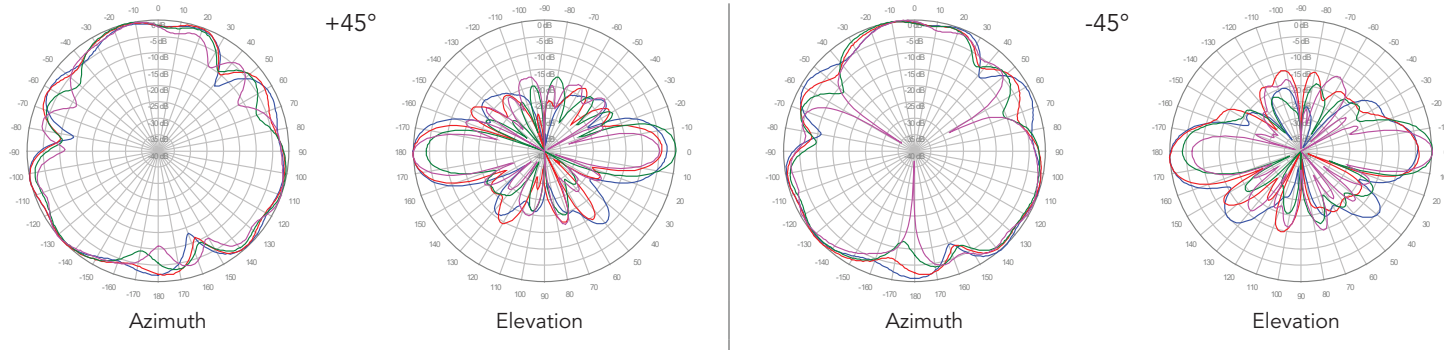


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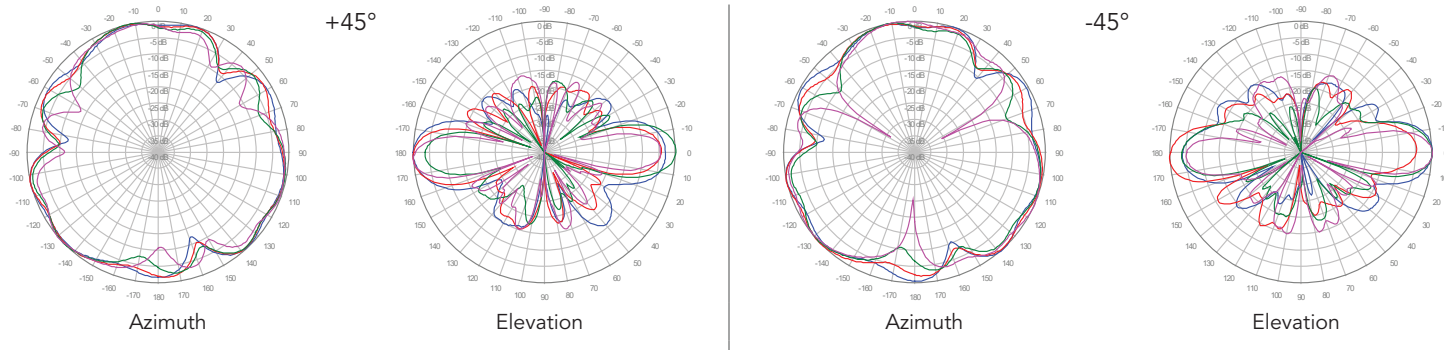
2C6U4MT360X12Fwxys4

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

Y5, 2° TILT



Y6, 2° TILT

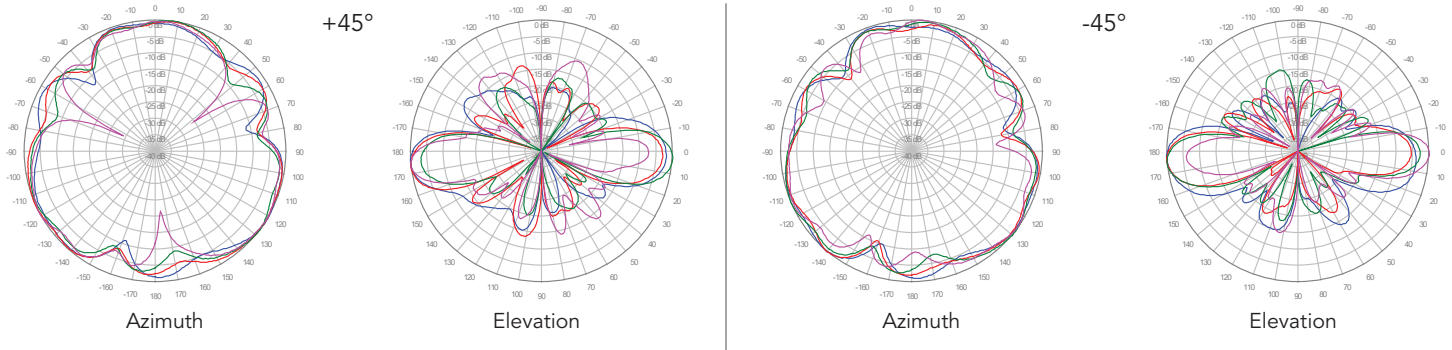


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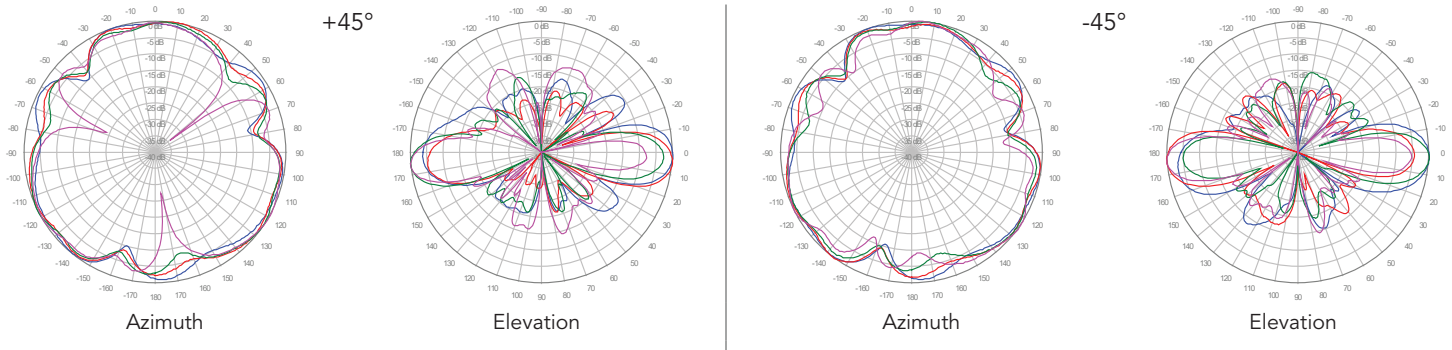
2C6U4MT360X12Fwxys4

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

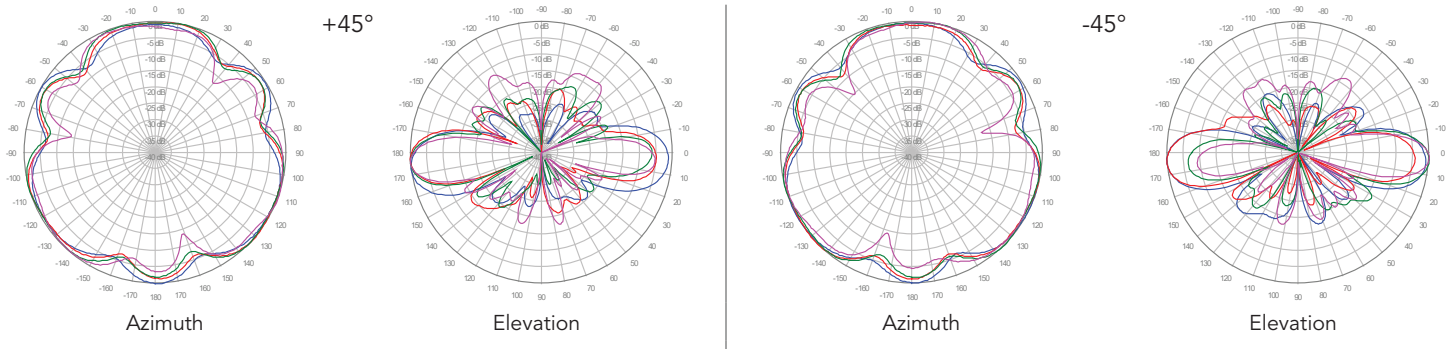
■ Y1, 4° TILT



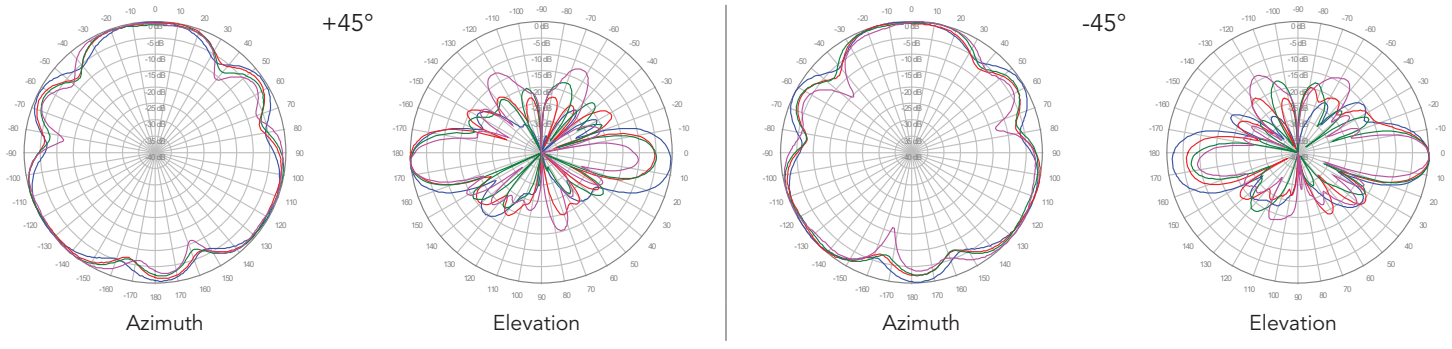
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

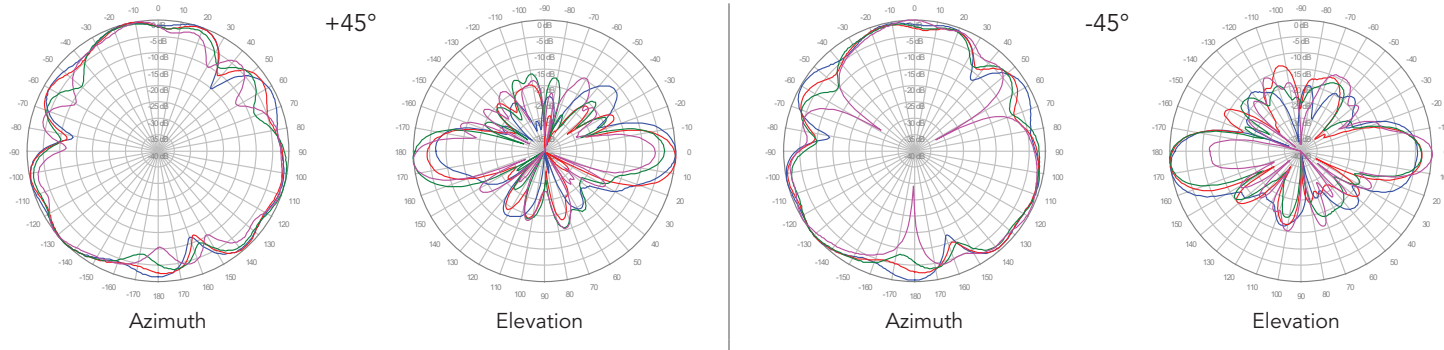


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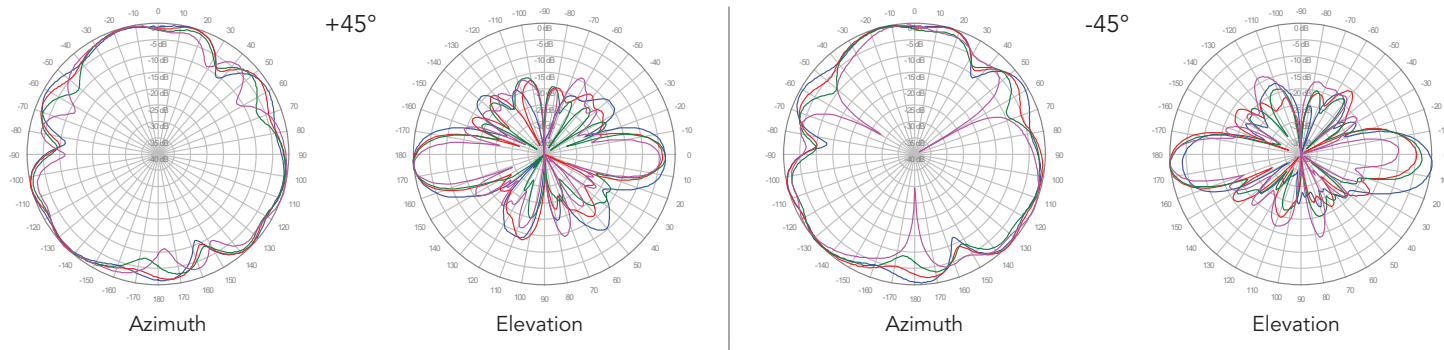
2C6U4MT360X12Fwxys4

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

Y5, 4° TILT



Y6, 4° TILT

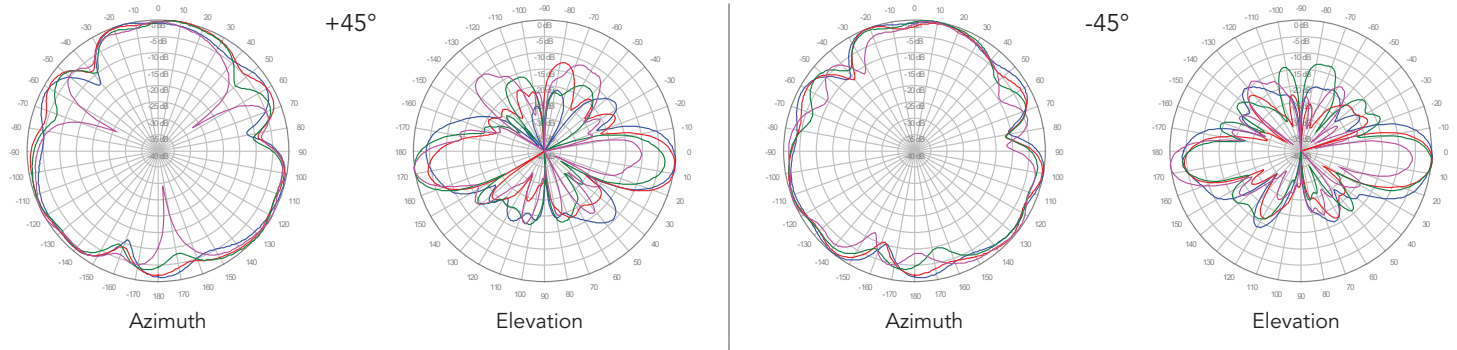


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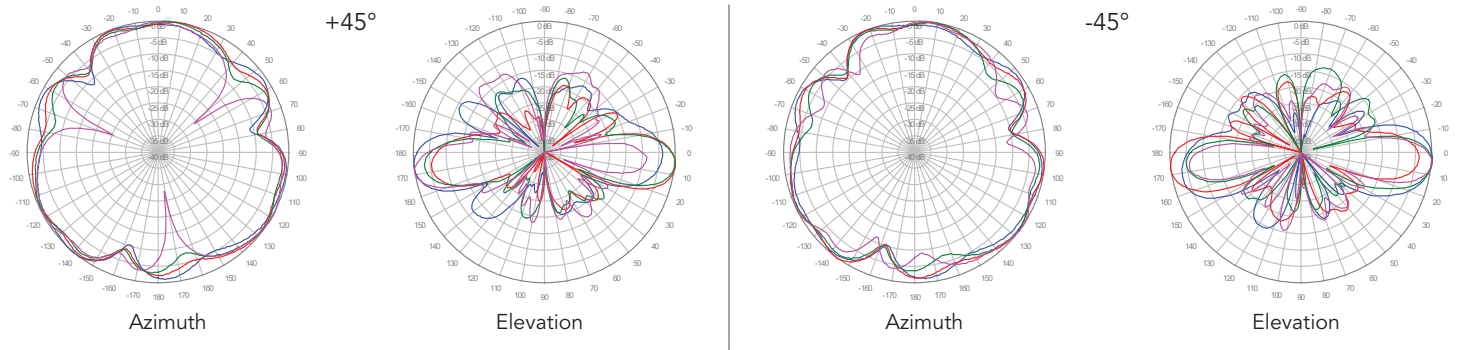
2C6U4MT360X12Fwxys4

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

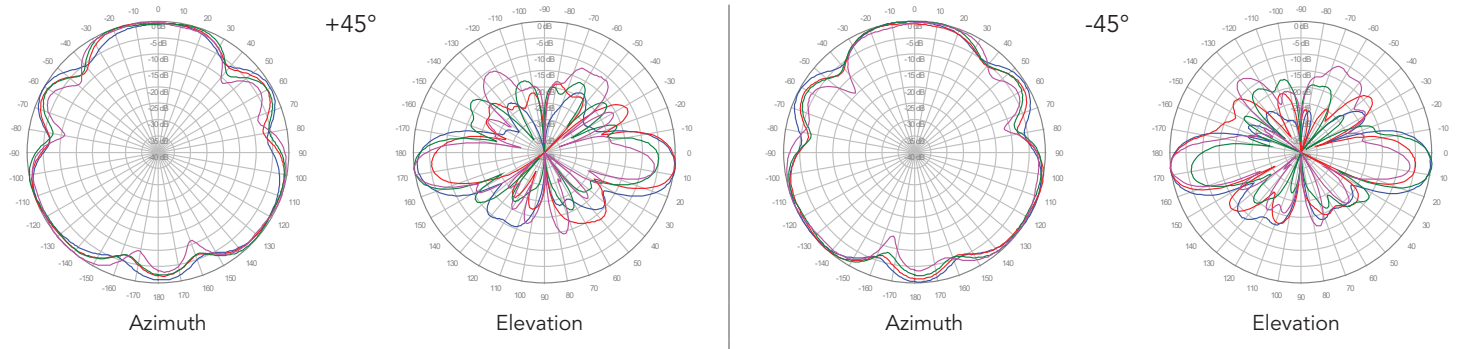
■ Y1, 6° TILT



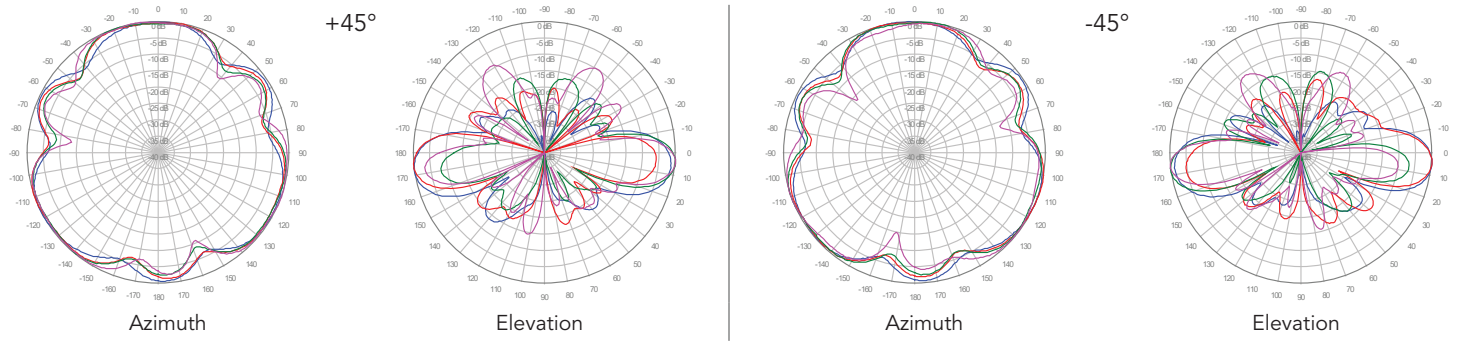
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT

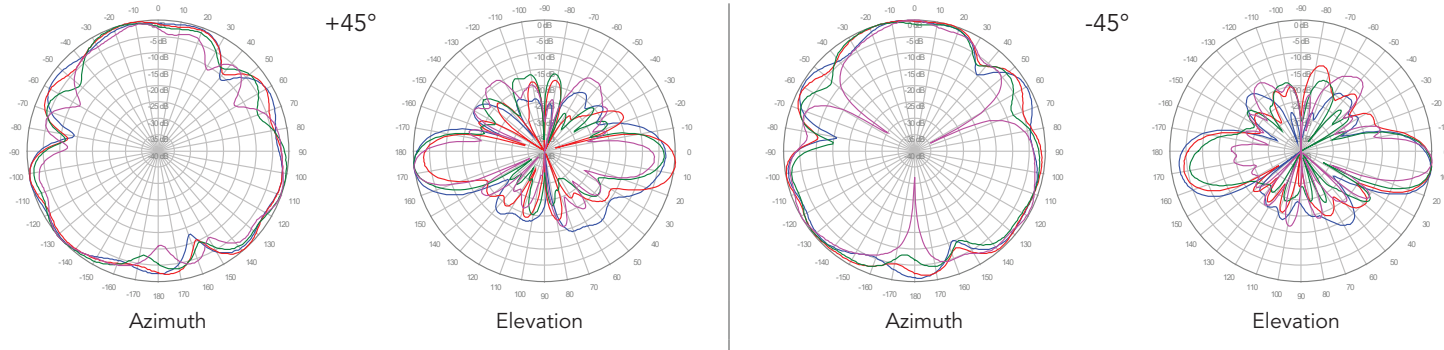


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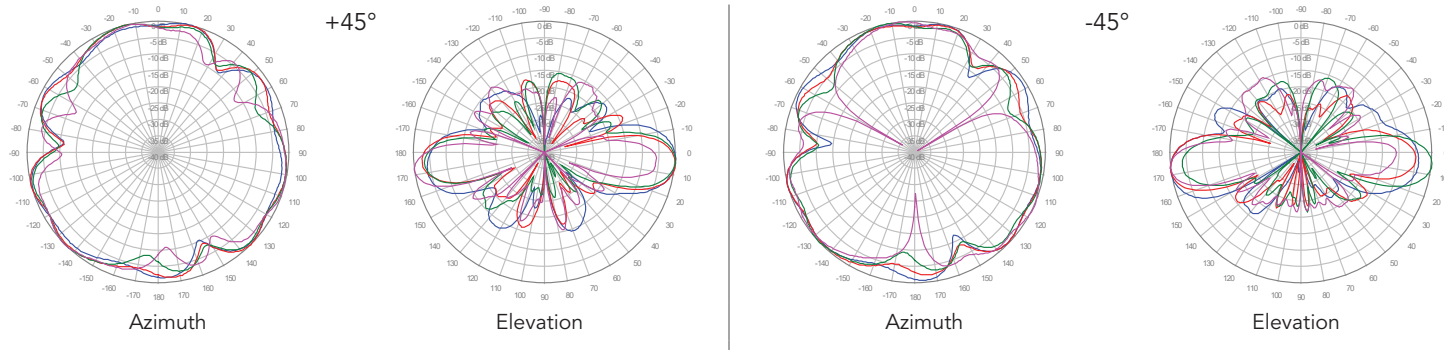
2C6U4MT360X12Fwxys4

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

■ **Y5, 6° TILT**



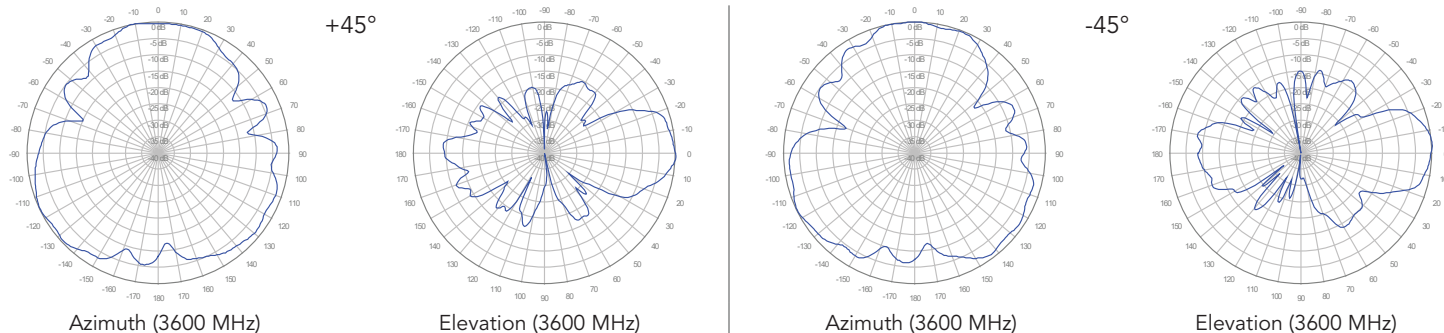
■ **Y6, 6° TILT**



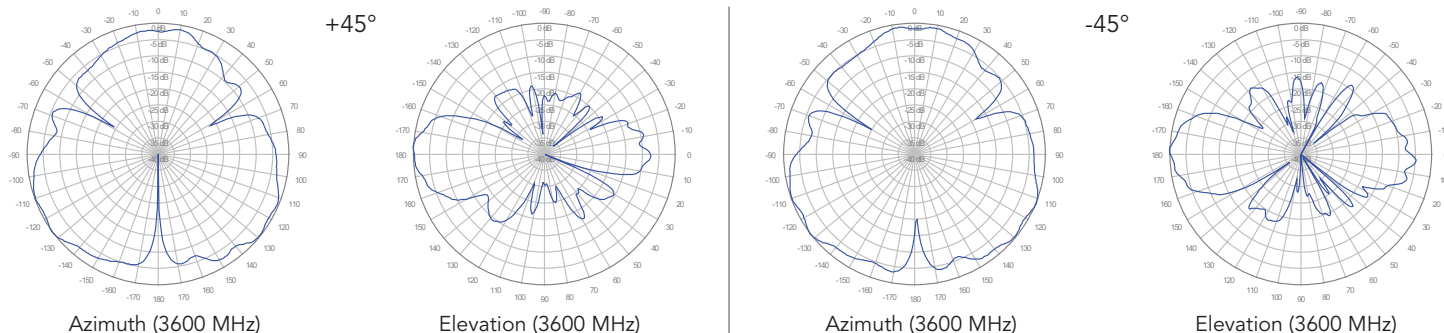
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2C6U4MT360X12Fwxys4

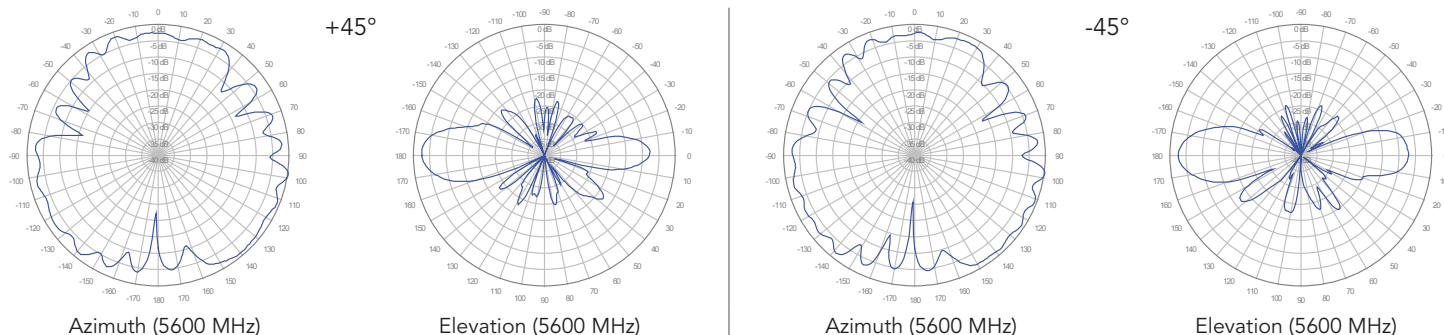
P1, 0° TILT



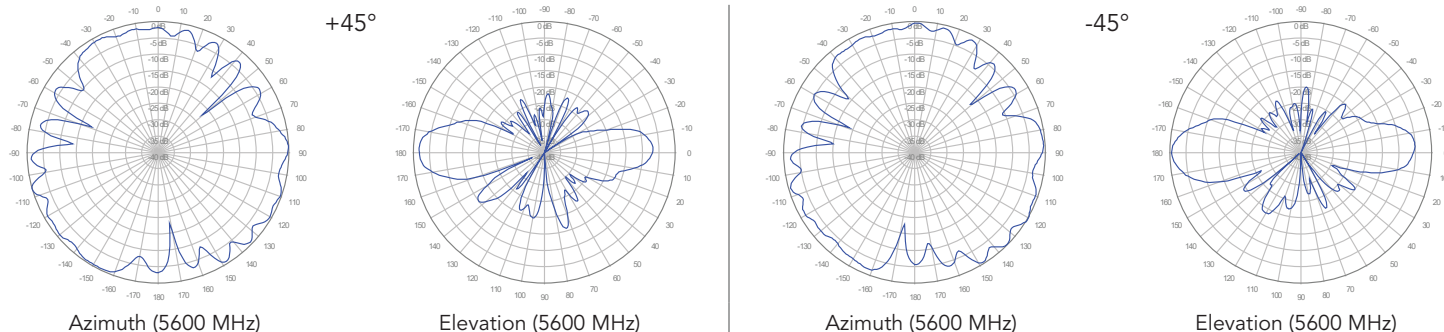
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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