

OMNI | 23.9 IN | FIXED TILT

4U4MT360X06F_{xy}s4



Features

- Pseudo omni configuration with 16 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 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)	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Optional GPS BAND 1575.42 ± 10
	Array	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2	■ O1, ■ O2	---
	Connector	8 PORTS	4 PORTS	4 PORTS	1 PORT
	Polarization	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
	Azimuth Beamwidth (avg)	360°	360°	360°	---
	Electrical Downtilt	0°, 2°, 4°, 6°	0°	0°	---
	Configuration	OMNI CONFIGURATION			---
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS	50 WATTS	---
	Maximum Total Continuous Power at 50° C (122° F)	3000 WATTS			---
	Connector Type	(16x) 4.3-10 FEMALE			(1x) N-TYPE FEMALE
Dimensions	606 x Ø371 mm (23.9 x Ø14.6 in)			---	
Radome Color Options	GREY, BROWN or BLACK			---	

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	9.5 ± 0.6	9.5 ± 0.4	9.4 ± 0.5	9.7 ± 0.5
	MAX	dBi	10.1	9.9	9.9	10.2
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	21.2° ± 2.0°	19.6° ± 1.2°	18.6° ± 1.7°	15.3° ± 1.9°	
Electrical Downtilt	degrees	(x) 0°, 2°, 4°, 6°				
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

■ P1 ■ P2

Frequency Range	MHz	(2x) 3300-4200	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	5.9 ± 0.8
	MAX	dBi	6.7
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	29.5° ± 6.1°	
Electrical Downtilt	degrees	(y) 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

ELECTRICAL SPECIFICATIONS

■ O1 ■ O2

Frequency Range	MHz	(2x) 5150-5925	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	5.1 ± 0.9
	MAX	dBi	6.0
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	20.4° ± 4.7°	
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	> 13	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant	---	Yes	

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INTEGRATED GPS UNIT OPTIONAL

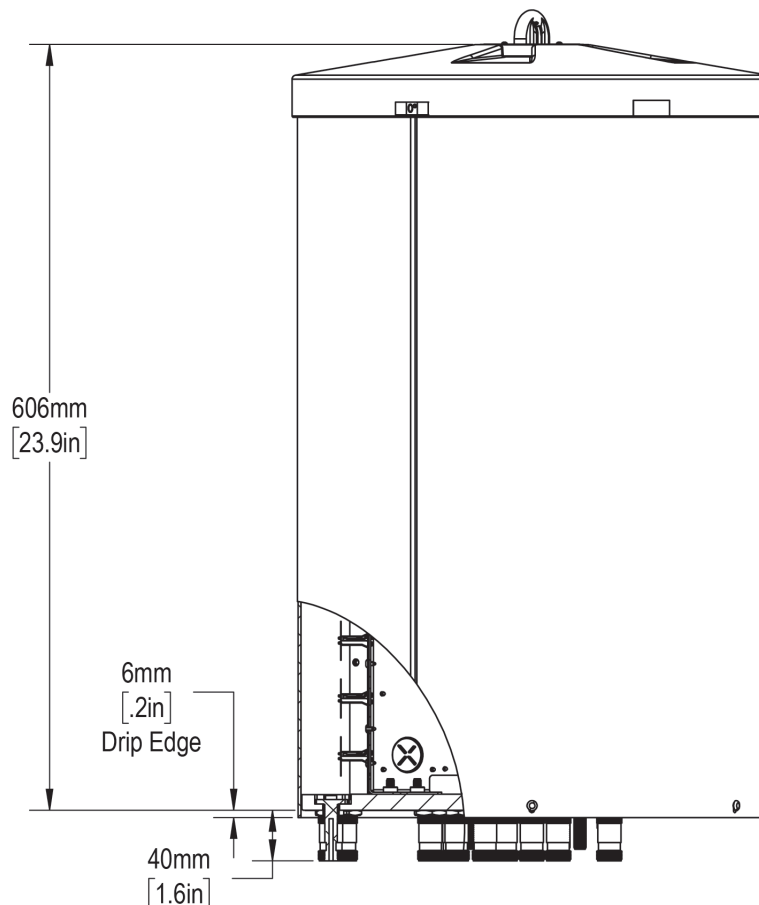
Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR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

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MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	606 (23.9)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	13.2 (29)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.22 (2.4)
Volume		m ³ (ft ³)	0.07 (2.3)
Connector	Type	---	(16x) 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

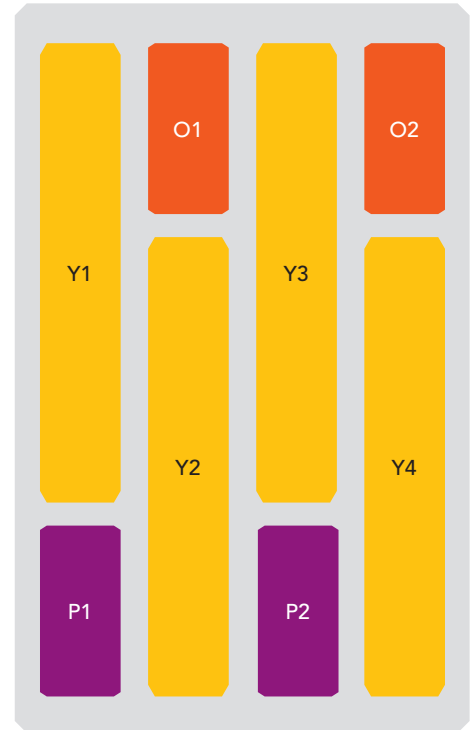


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ARRAY LAYOUT Topology

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
5150-5925 MHz	■ O1	13-14	(2x) 4.3-10 Female
5150-5925 MHz	■ O2	15-16	(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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BOTTOM VIEW - LABELING

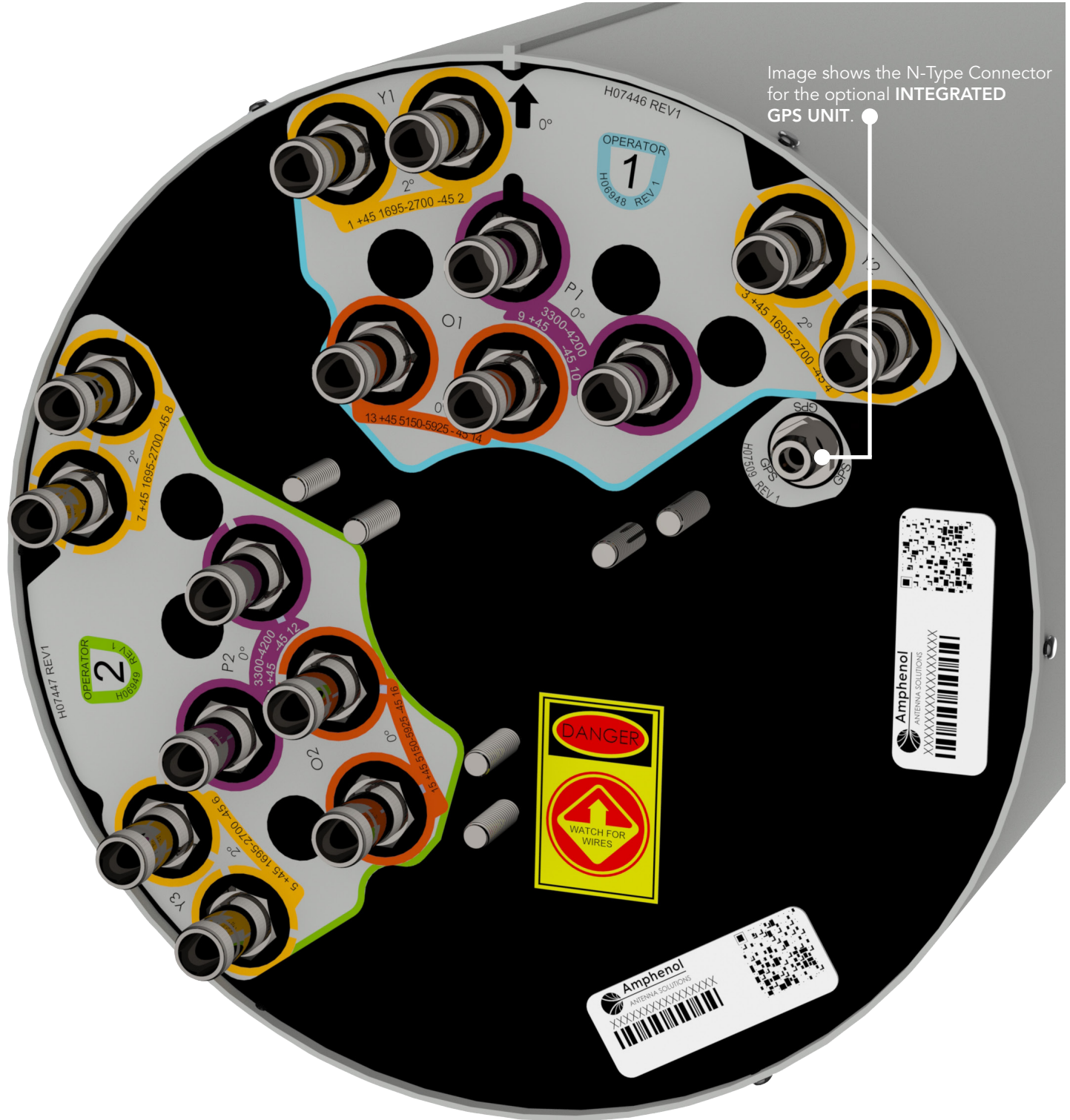
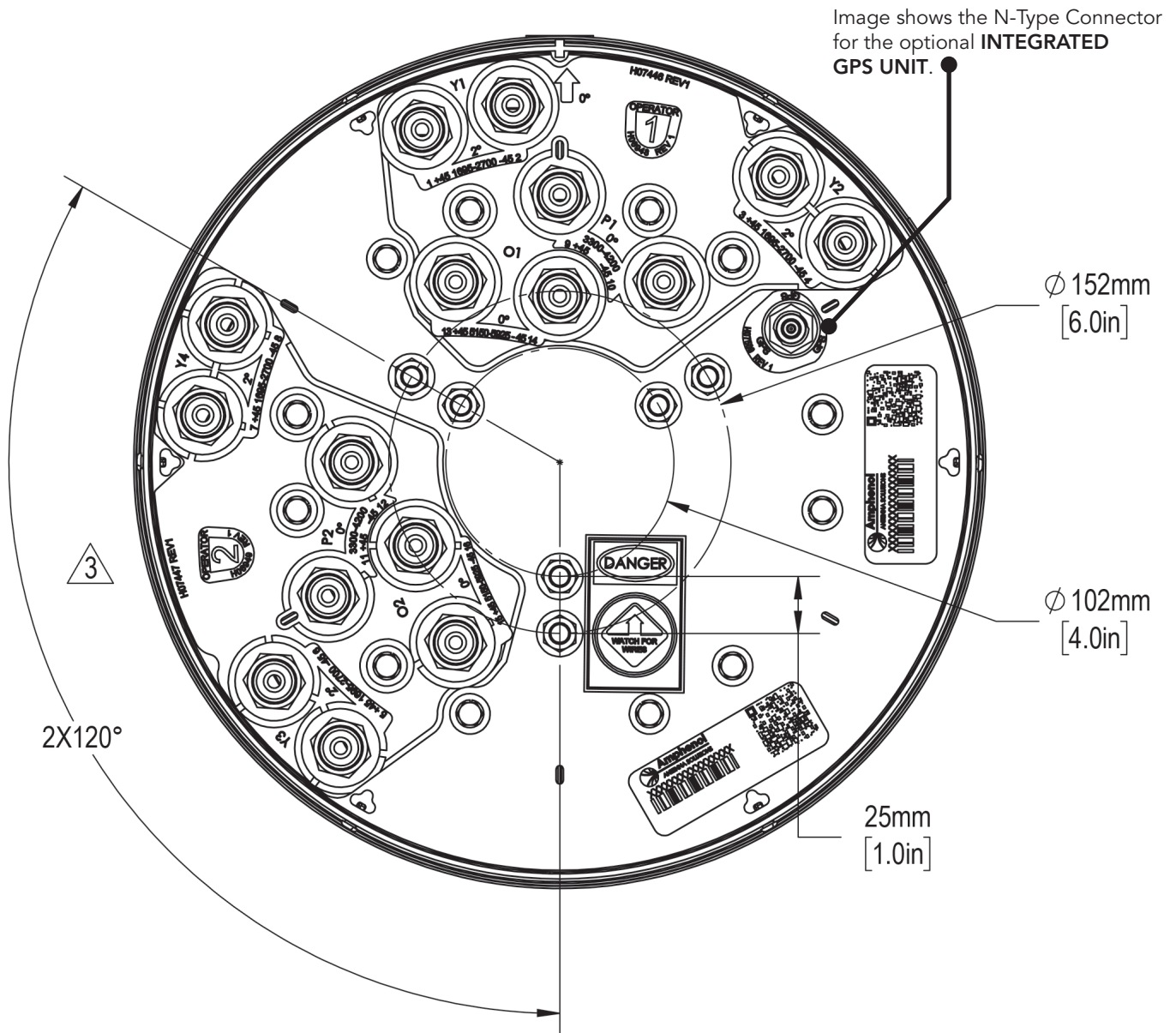


Image shows the N-Type Connector for the optional INTEGRATED GPS UNIT.

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

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BWWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS
4U			4M	T	360	X	06	F	xy	s	4	BK BR -GPS
(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	Generation 4 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

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ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			SELECT ANTENNA TYPE	
	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey Pantone 420 C	0°	0°	0°	4U4MT360X06F00s4	4U4MT360X06F00s4-GPS
	2°	0°	0°	4U4MT360X06F20s4	4U4MT360X06F20s4-GPS
	4°	0°	0°	4U4MT360X06F40s4	4U4MT360X06F40s4-GPS
	6°	0°	0°	4U4MT360X06F60s4	4U4MT360X06F60s4-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4	4U4MT360X06FAAs4-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4	4U4MT360X06FBBs4-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4	4U4MT360X06FCCs4-GPS
Brown Pantone 476 C	0°	0°	0°	4U4MT360X06F00s4BR	4U4MT360X06F00s4BR-GPS
	2°	0°	0°	4U4MT360X06F20s4BR	4U4MT360X06F20s4BR-GPS
	4°	0°	0°	4U4MT360X06F40s4BR	4U4MT360X06F40s4BR-GPS
	6°	0°	0°	4U4MT360X06F60s4BR	4U4MT360X06F60s4BR-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BR	4U4MT360X06FAAs4BR-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BR	4U4MT360X06FBBs4BR-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BR	4U4MT360X06FCCs4BR-GPS
Black RAL 9011	0°	0°	0°	4U4MT360X06F00s4BK	4U4MT360X06F00s4BK-GPS
	2°	0°	0°	4U4MT360X06F20s4BK	4U4MT360X06F20s4BK-GPS
	4°	0°	0°	4U4MT360X06F40s4BK	4U4MT360X06F40s4BK-GPS
	6°	0°	0°	4U4MT360X06F60s4BK	4U4MT360X06F60s4BK-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BK	4U4MT360X06FAAs4BK-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BK	4U4MT360X06FBBs4BK-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BK	4U4MT360X06FCCs4BK-GPS

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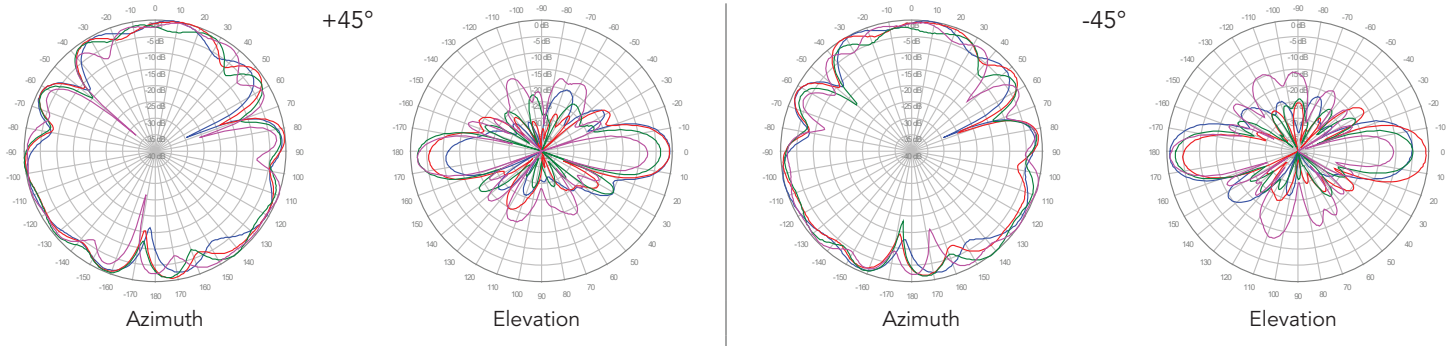
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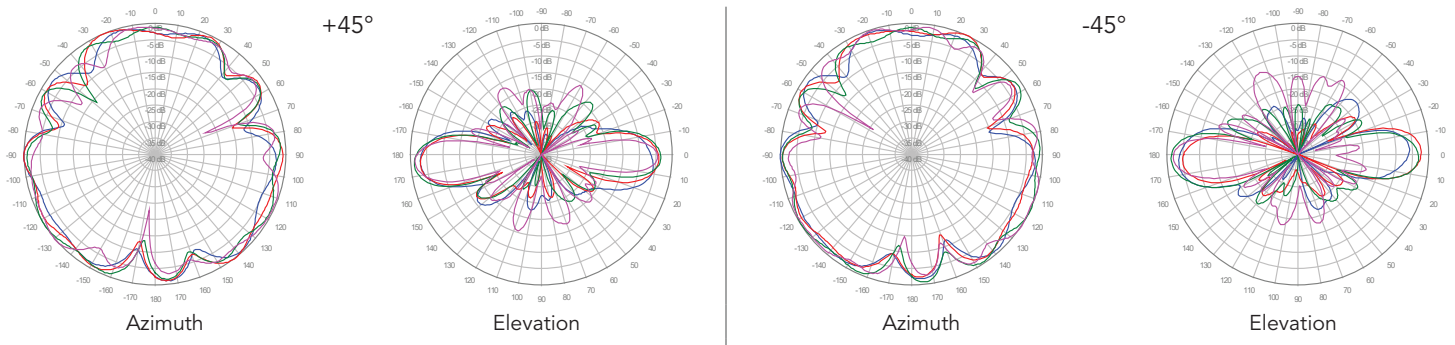
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1800 MHz ———
1900 MHz ———
2100 MHz ———
2600 MHz ———

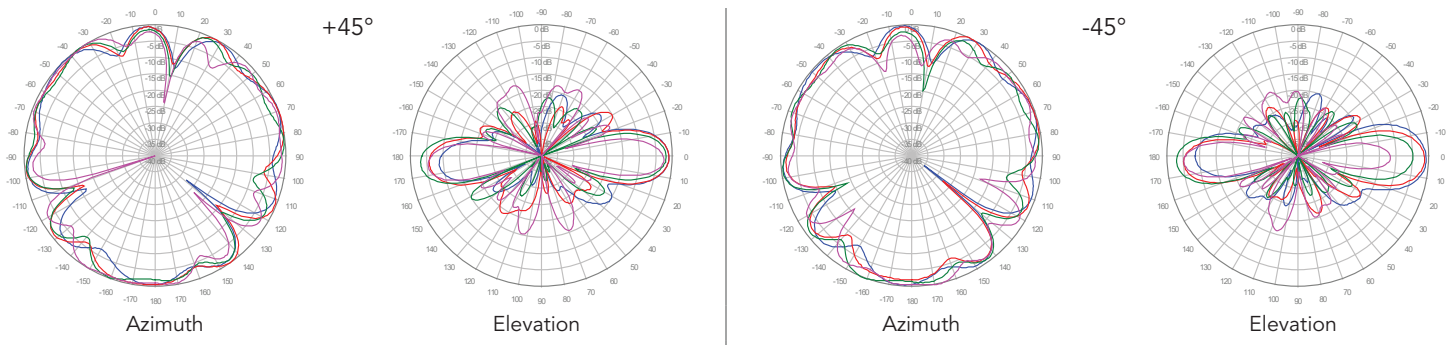
Y1, 2° TILT



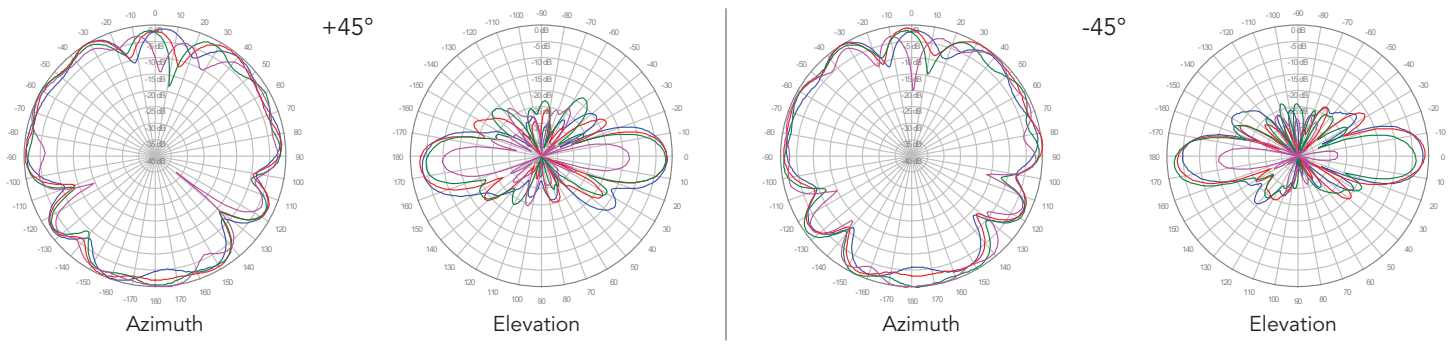
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT



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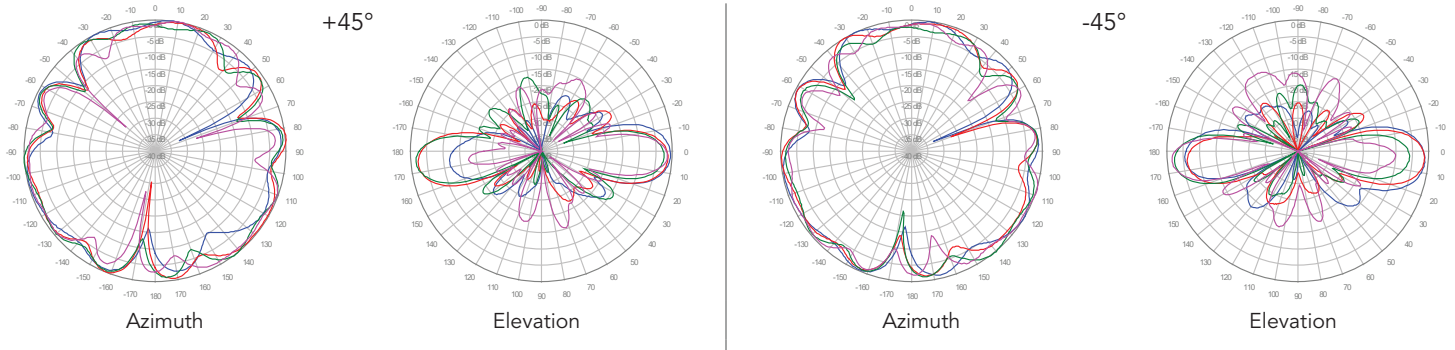
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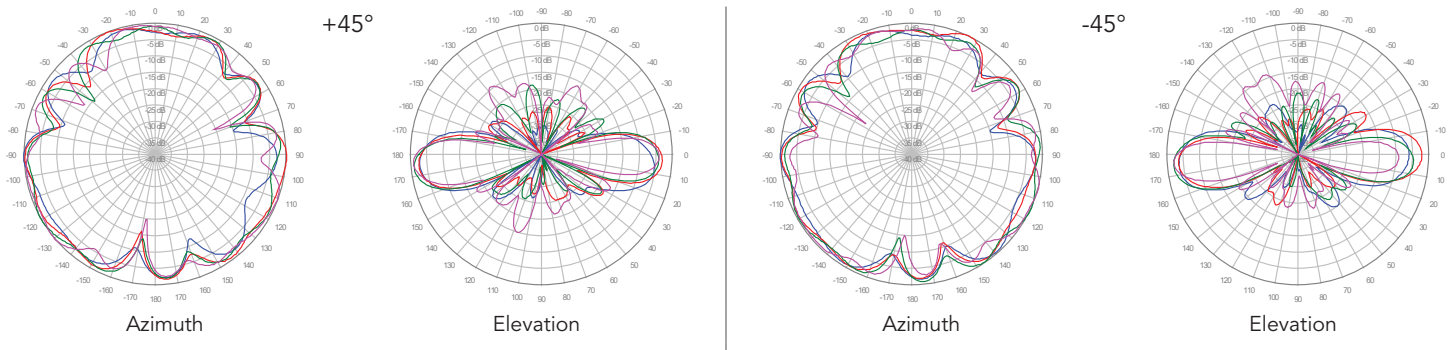
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1800 MHz ———
1900 MHz ———
2100 MHz ———
2600 MHz ———

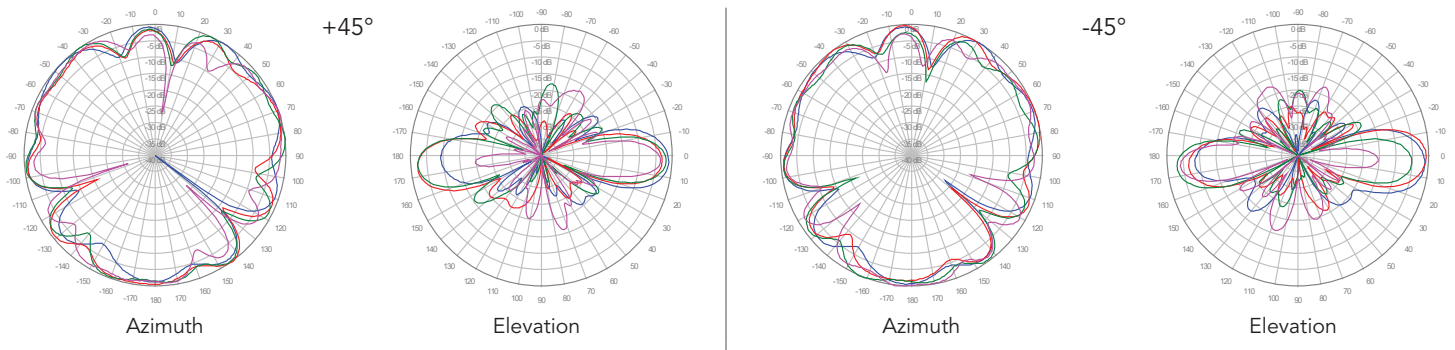
Y1, 4° TILT



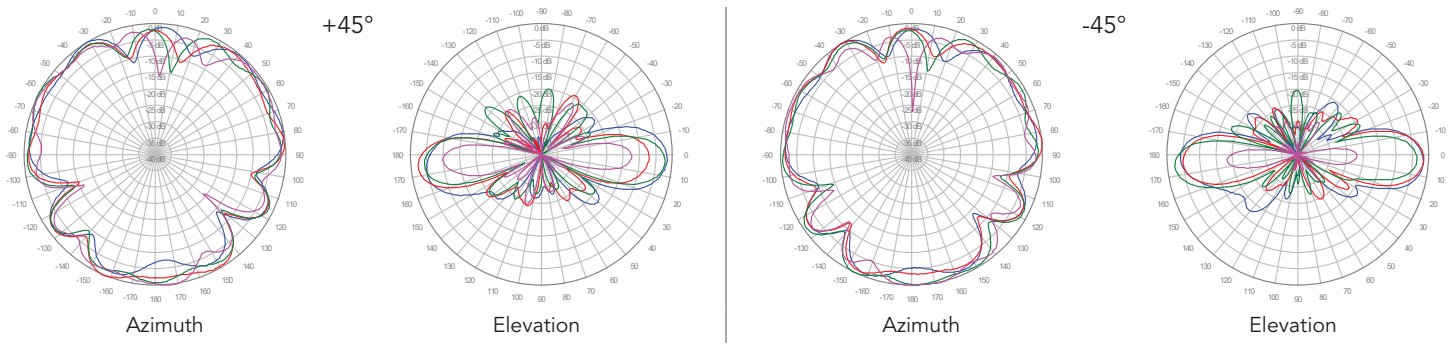
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

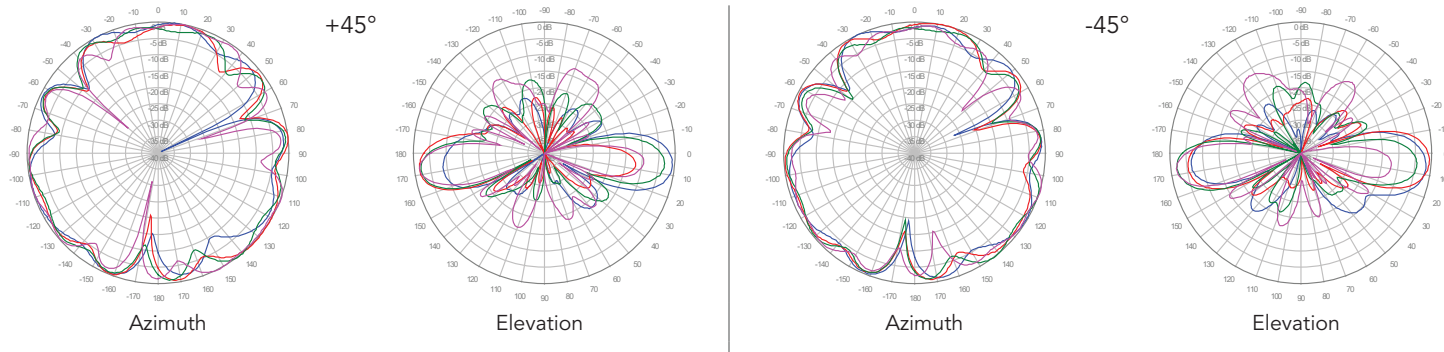


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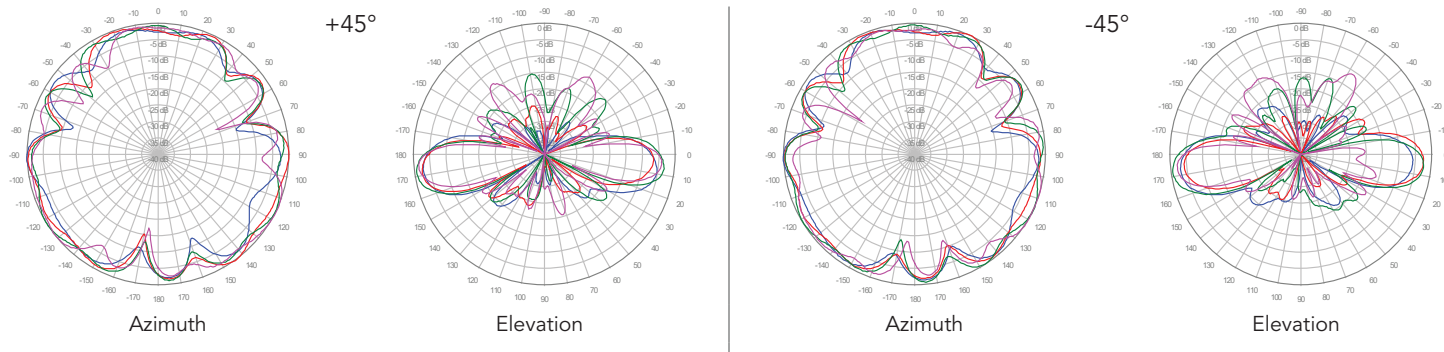
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1800 MHz ———
1900 MHz ———
2100 MHz ———
2600 MHz ———

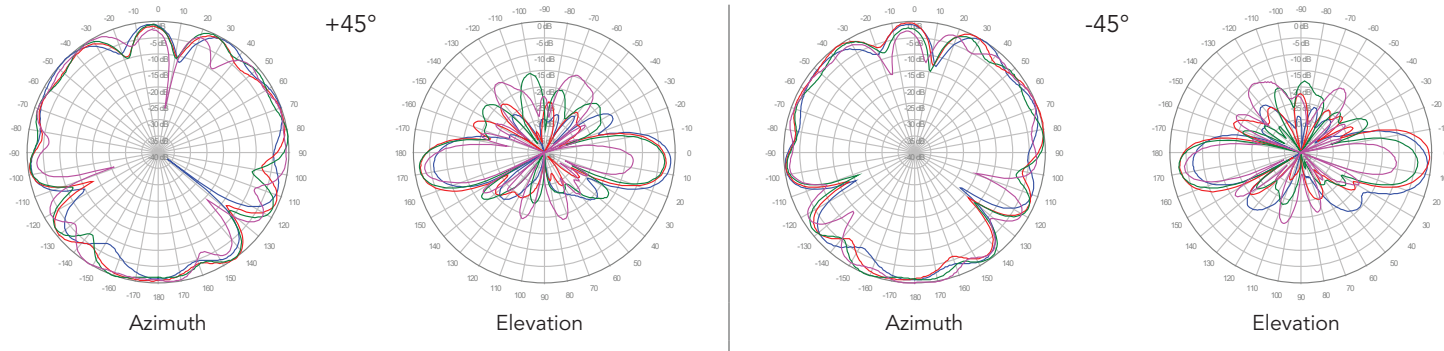
Y1, 6° TILT



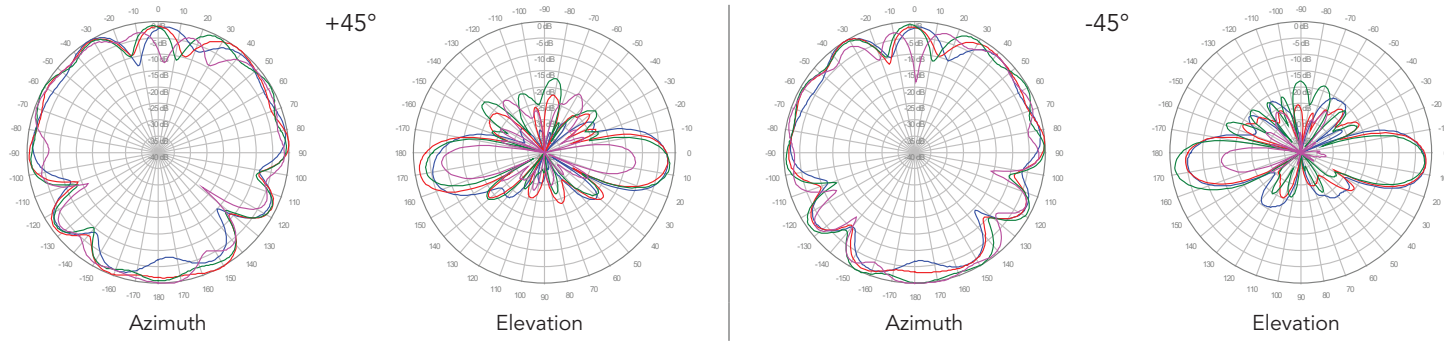
Y2, 6° TILT



Y3, 6° TILT



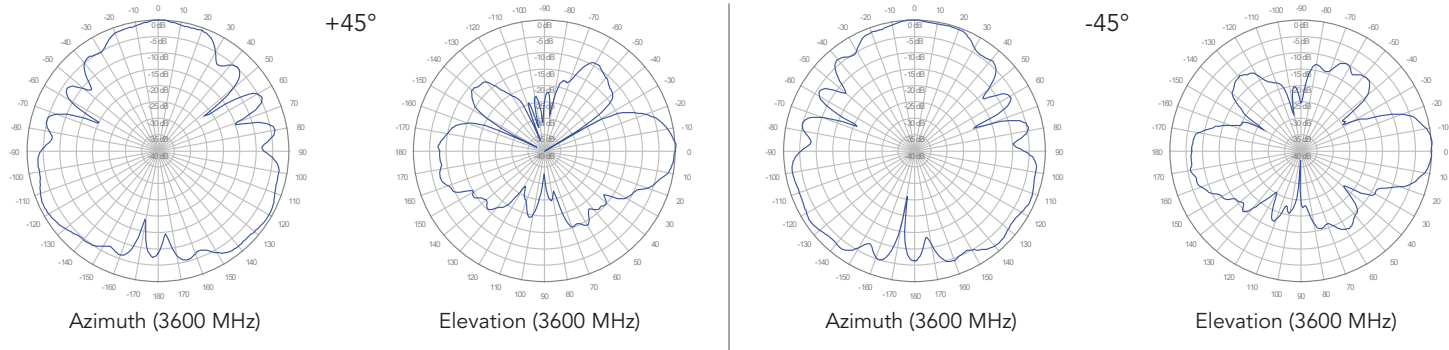
Y4, 6° TILT



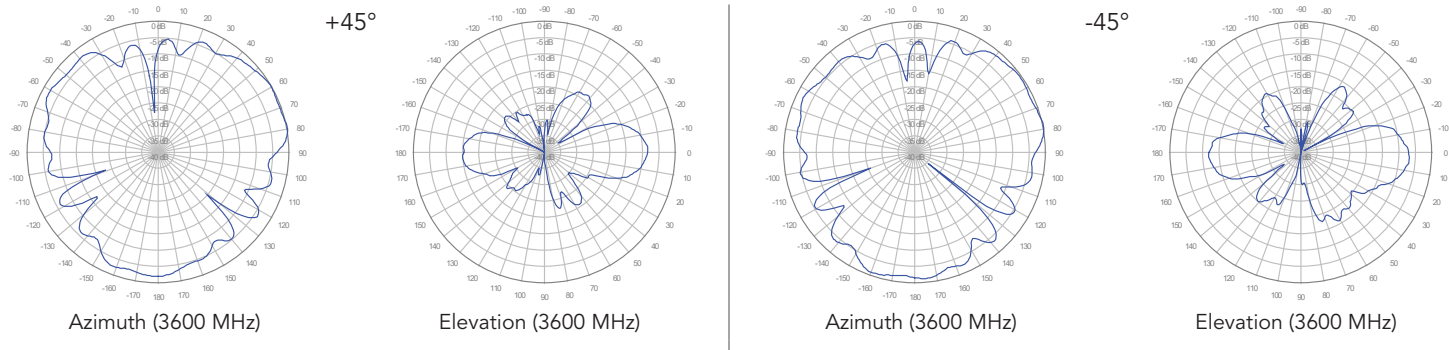
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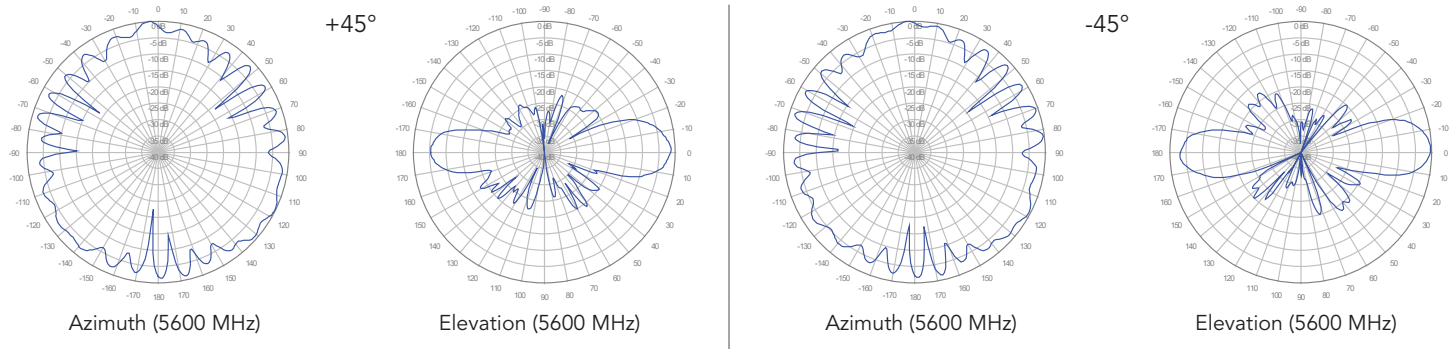
P1, 0° TILT



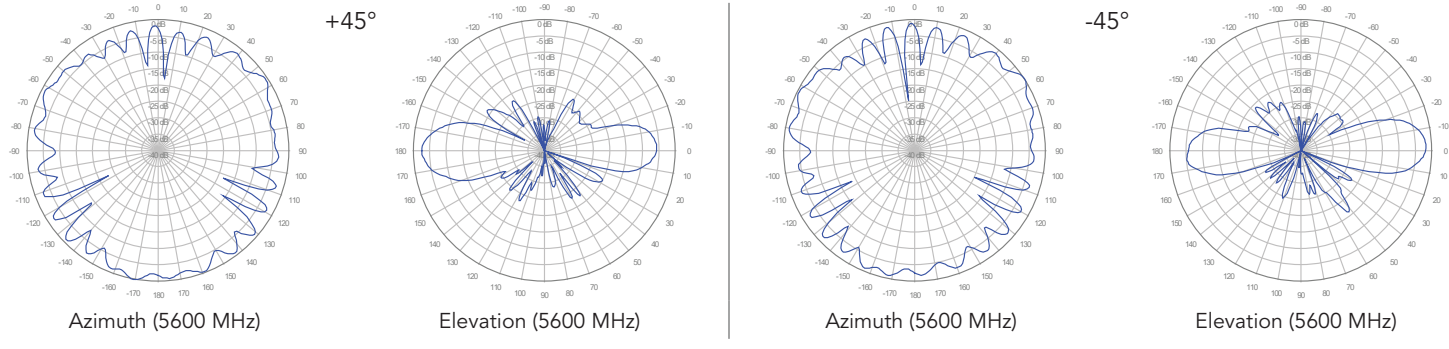
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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