

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
- This antenna meets the requirements of the U-NII



PRODUCT OVERVIEW	Frequency Range (MHz)	(4x) 1695-2700	(2x) 3300-4200	(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)	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		
	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 same band; > 30 different band			

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4U4MT360X06F_{xy}s4

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(2x) $\pm 45^\circ$		
Gain	BASTA	dBi	6.2 ± 0.4	5.9 ± 0.8	5.5 ± 0.9
	MAX	dBi	6.6	6.7	6.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$29.5^\circ \pm 6.2^\circ$	$28.3^\circ \pm 5.2^\circ$	$26.8^\circ \pm 5.5^\circ$
Electrical Downtilt		degrees	(y) 0°		
Impedance		Ohms	50Ω		
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 same band; > 30 different band		

ELECTRICAL SPECIFICATIONS

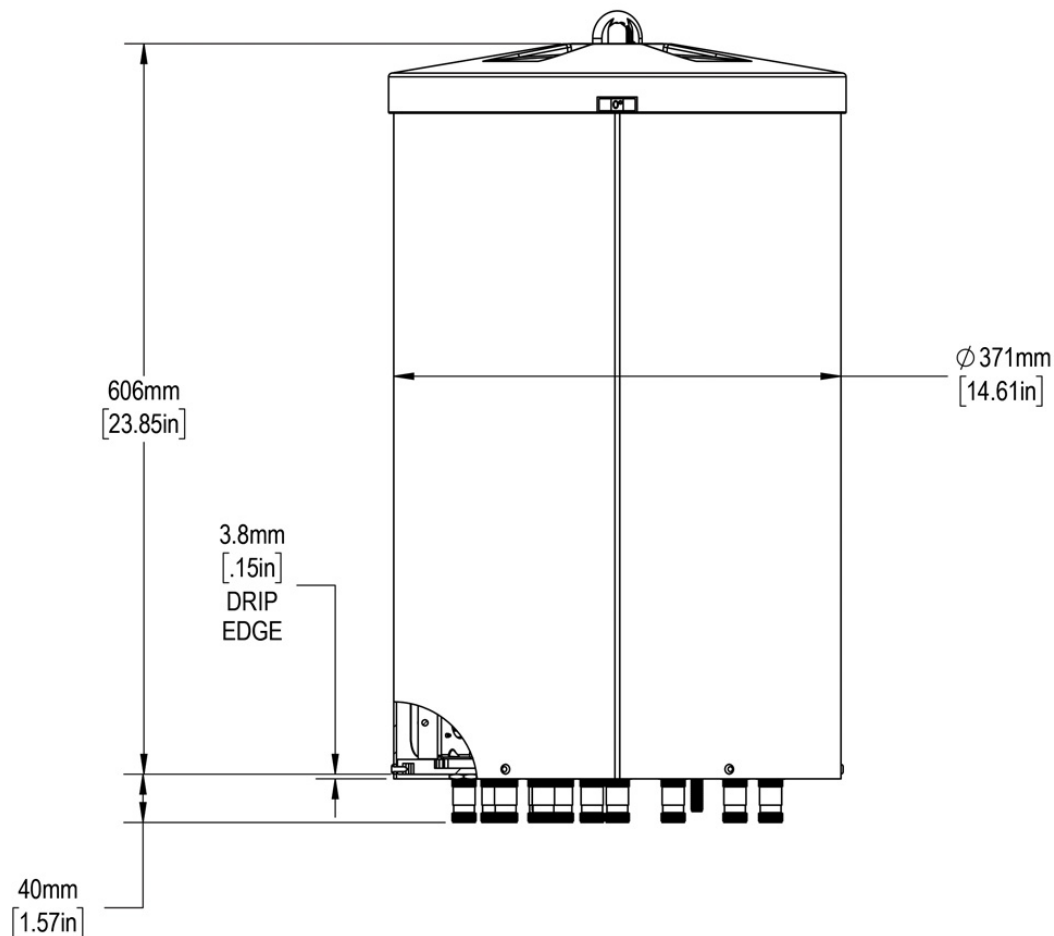
■ O1 ■ O2

Frequency Range		MHz	(2x) 5150-5925		
Polarization		---	(2x) $\pm 45^\circ$		
Gain	BASTA	dBi	5.1 ± 0.9		
	MAX	dBi	6.0		
Azimuth Beamwidth (3 dB)		degrees	360°		
Elevation Beamwidth (3 dB)		degrees	$20.4^\circ \pm 4.7^\circ$		
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	> 14		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28		
U-NII Compliant		---	Yes		

4U4MT360X06F_{xy}s4

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
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

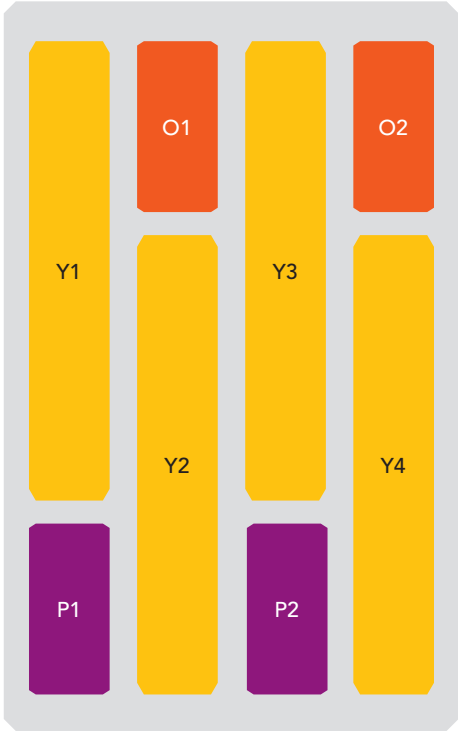


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4U4MT360X06F^{xy}s4

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

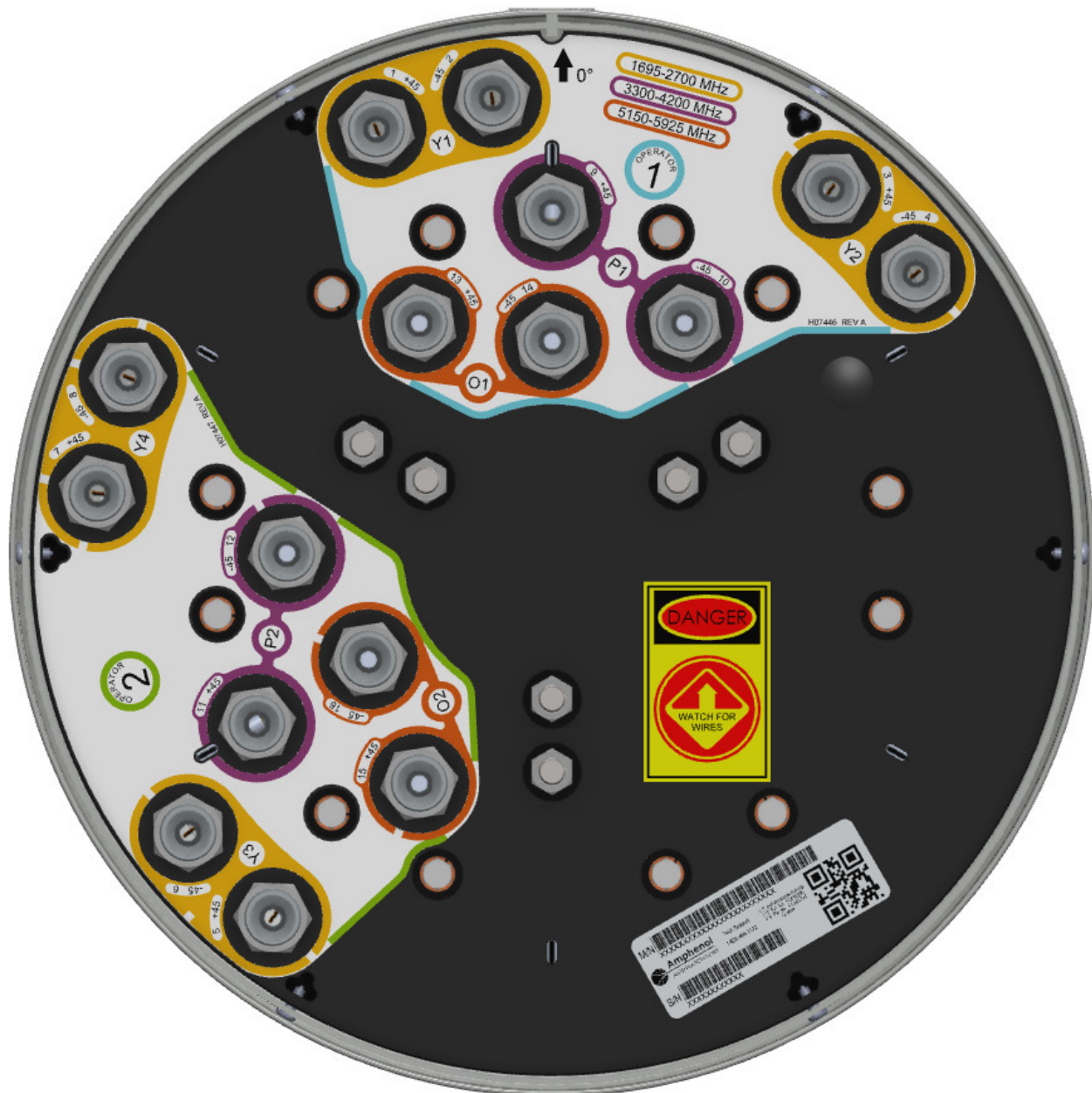


The illustration is not shown to scale.

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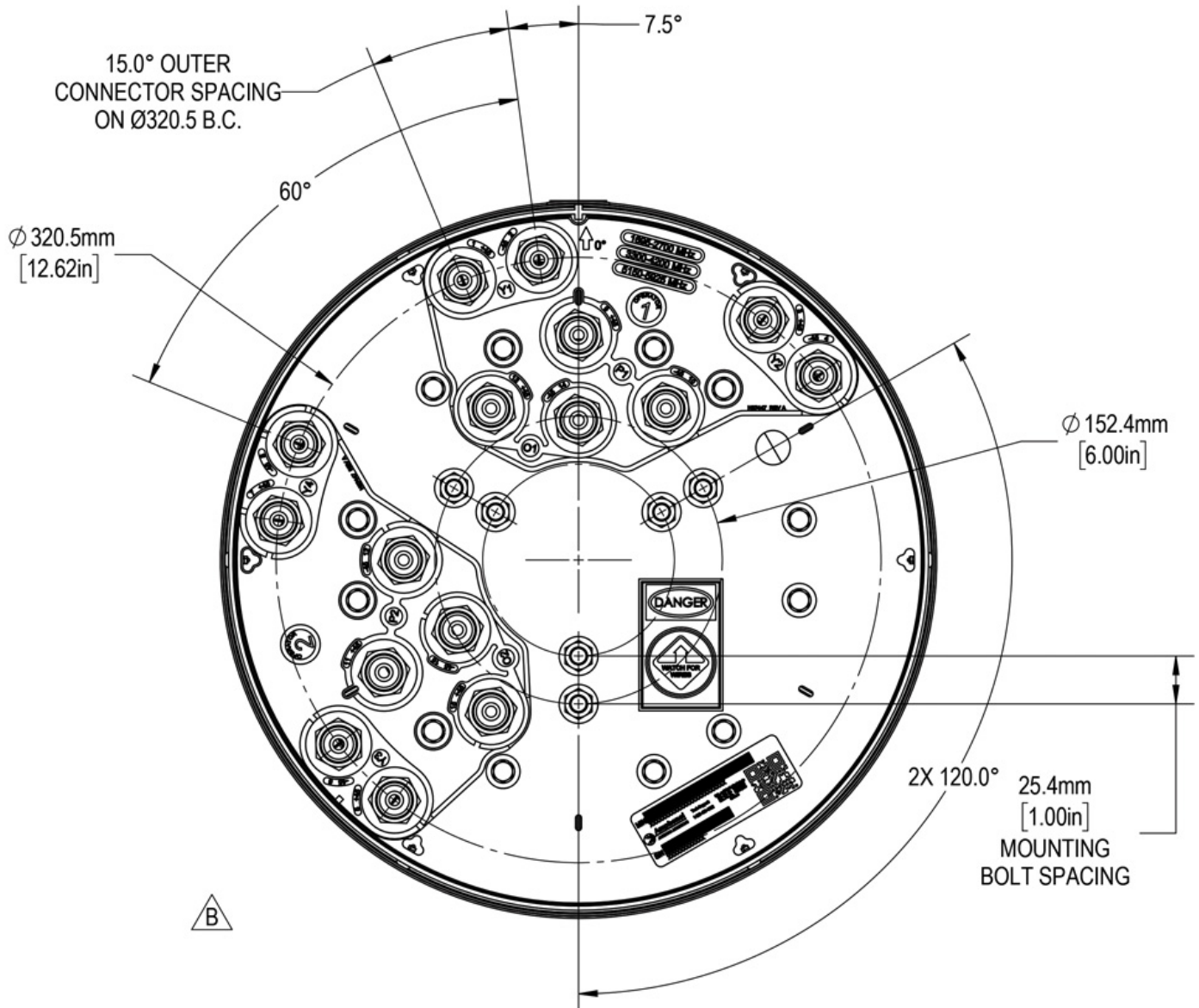
4U4MT360X06F_{xy}s4

BOTTOM VIEW - LABELING



4U4MT360X06F_{xy}s4

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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4U4MT360X06F_{xy}s4

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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4U4MT360X06Fxy^s4

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

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

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4U4MT360X06F_{xys}4

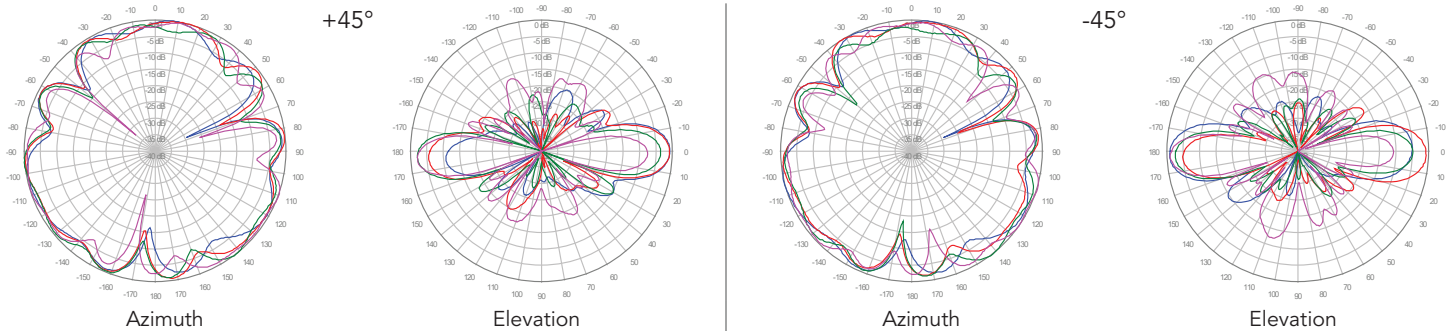
ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey RAL 7035	0°	0°	0°	4U4MT360X06F00s4
	2°	0°	0°	4U4MT360X06F20s4
	4°	0°	0°	4U4MT360X06F40s4
	6°	0°	0°	4U4MT360X06F60s4
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4
Brown RAL 8022	0°	0°	0°	4U4MT360X06F00s4BR
	2°	0°	0°	4U4MT360X06F20s4BR
	4°	0°	0°	4U4MT360X06F40s4BR
	6°	0°	0°	4U4MT360X06F60s4BR
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BR
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BR
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BR
Black RAL 9011	0°	0°	0°	4U4MT360X06F00s4BK
	2°	0°	0°	4U4MT360X06F20s4BK
	4°	0°	0°	4U4MT360X06F40s4BK
	6°	0°	0°	4U4MT360X06F60s4BK
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BK
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BK
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BK

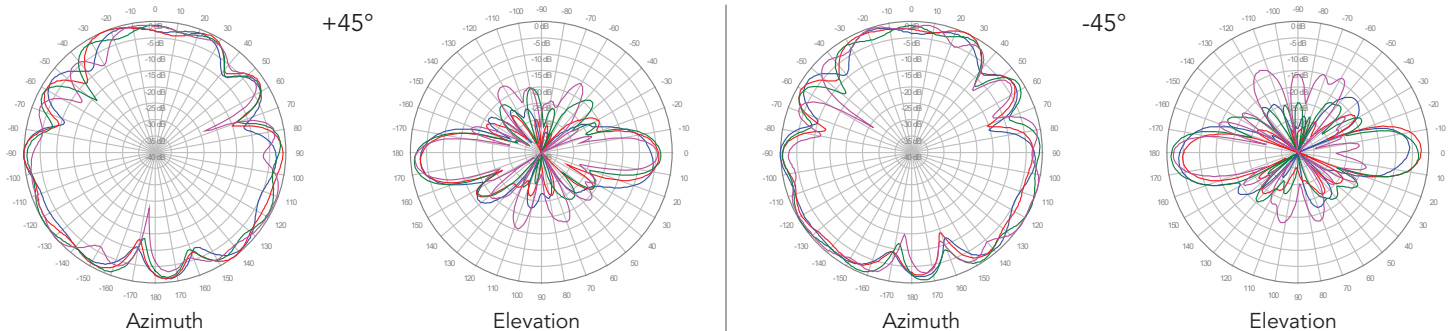
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1800 MHz ———
1900 MHz ———
2100 MHz ———
2600 MHz ———

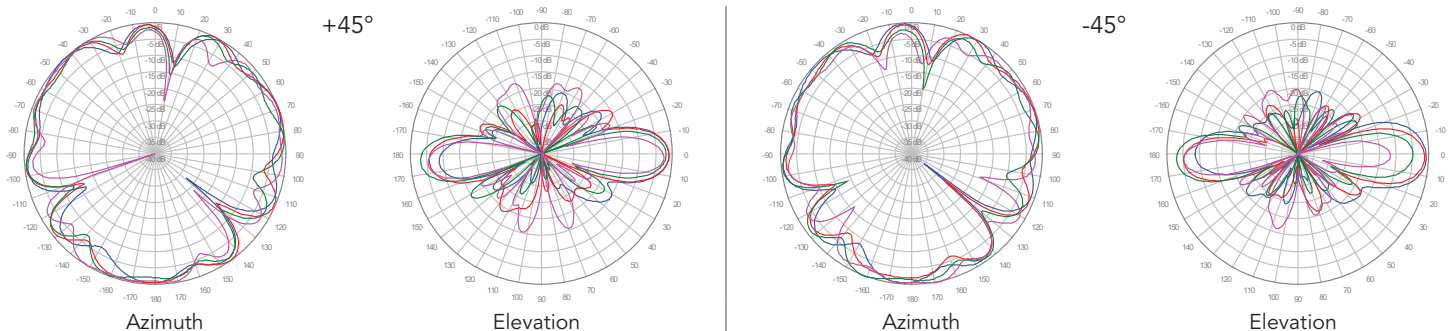
Y1, 2° TILT



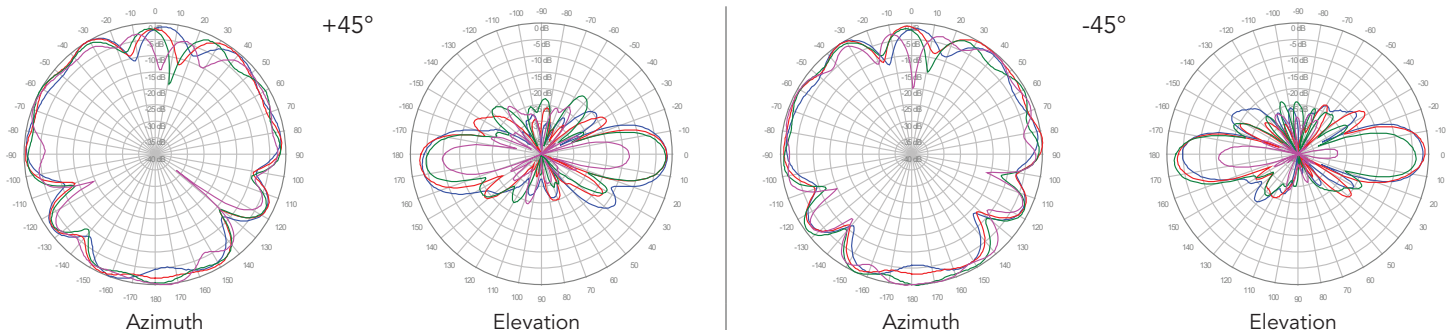
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT



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OMNI

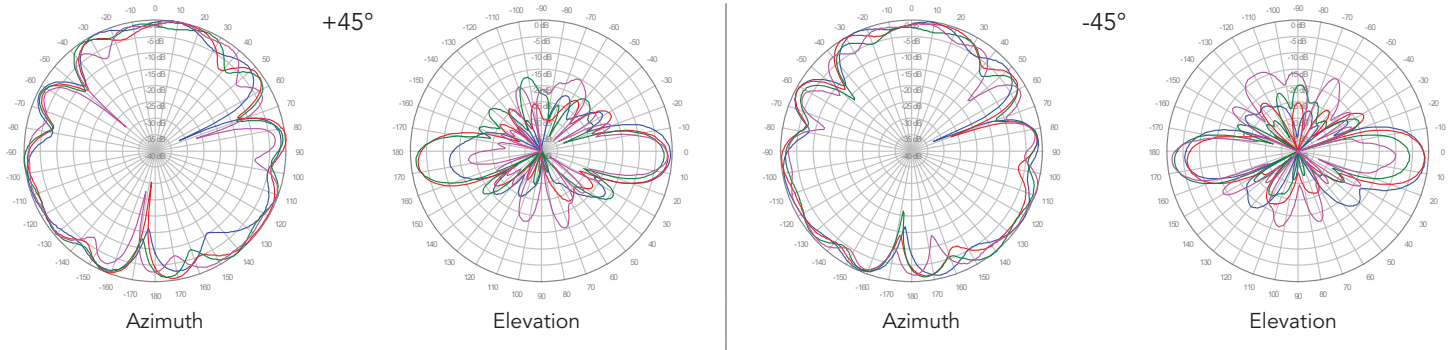
23.9 IN

FIXED TILT

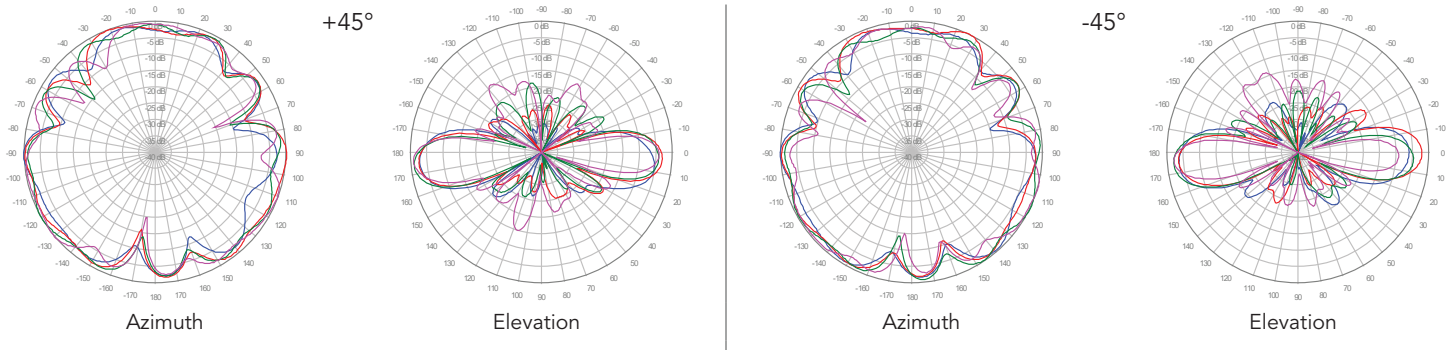
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1800 MHz ————
1900 MHz ————
2100 MHz ————
2600 MHz ————

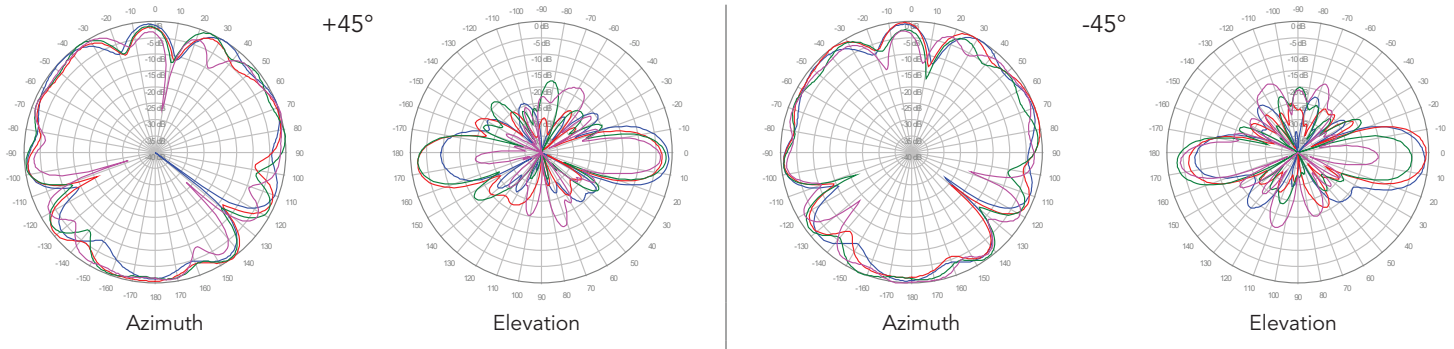
Y1, 4° TILT



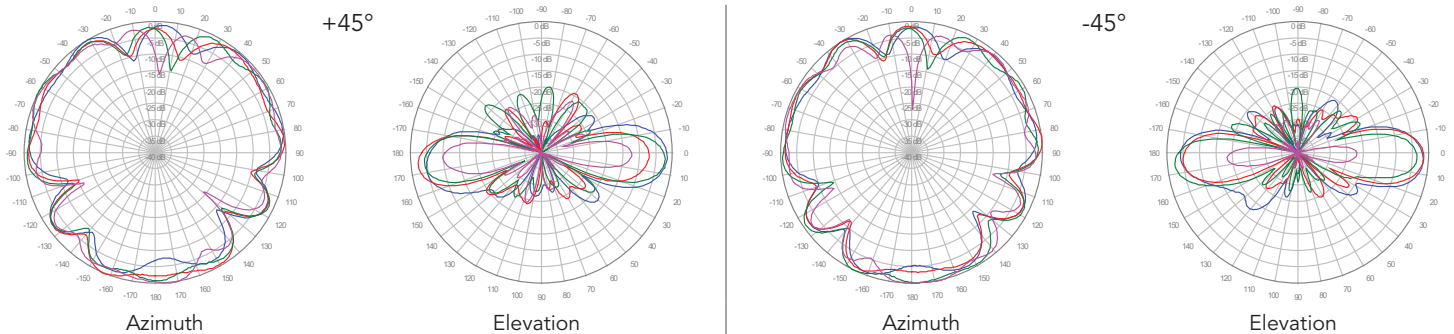
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT



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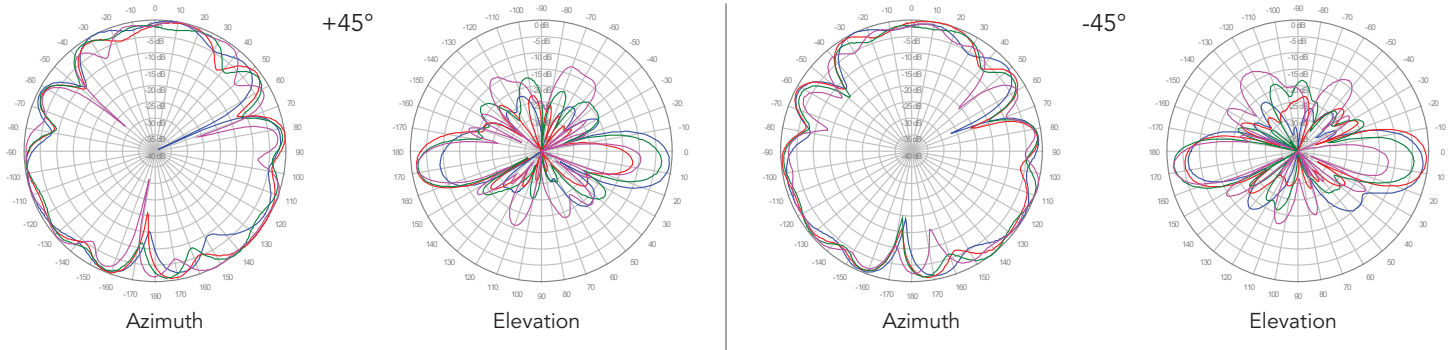
23.9 IN

FIXED TILT

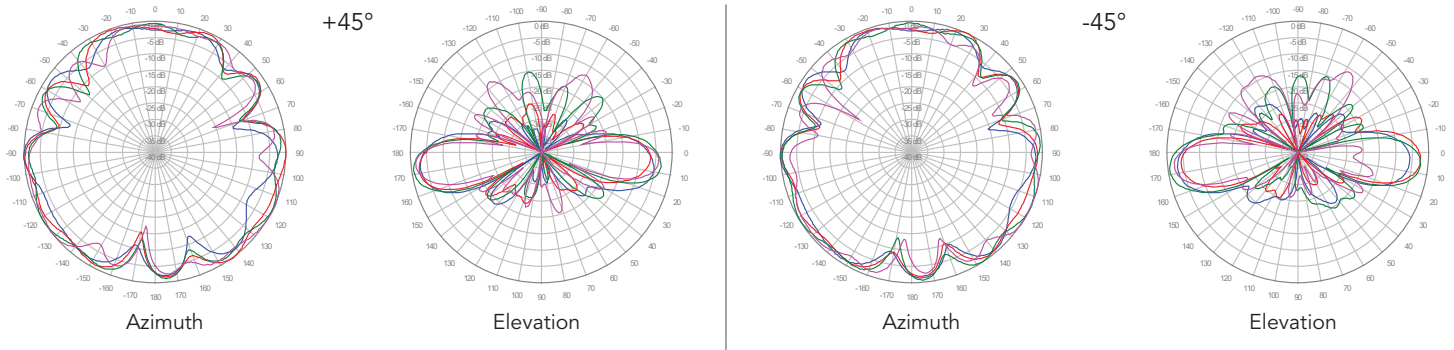
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1800 MHz ————
1900 MHz ————
2100 MHz ————
2600 MHz ————

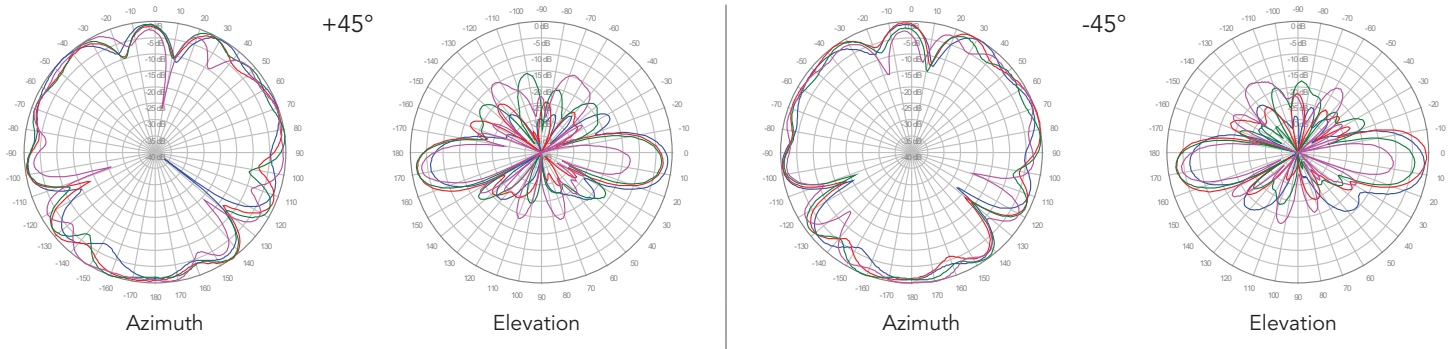
■ Y1, 6° TILT



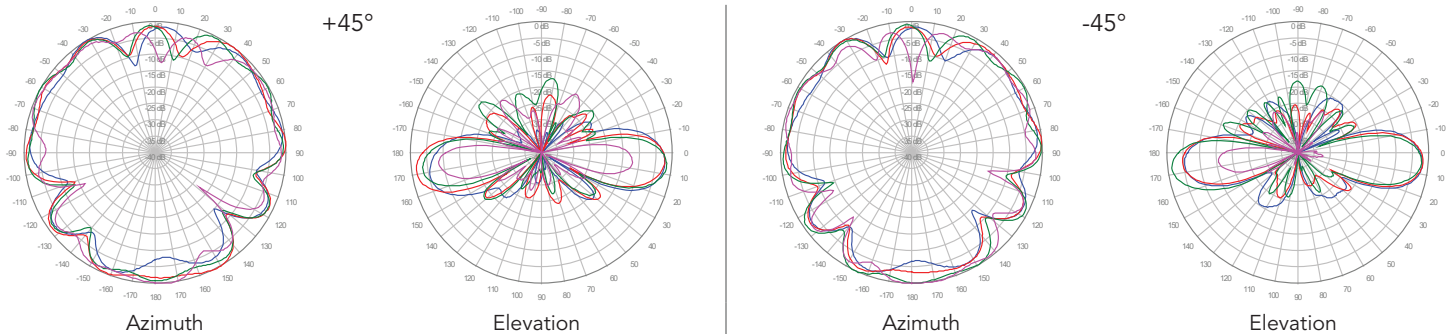
■ Y2, 6° TILT



■ Y3, 6° TILT



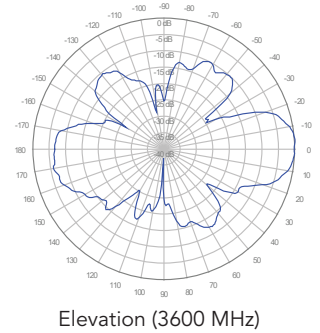
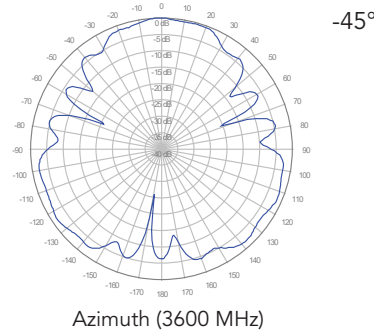
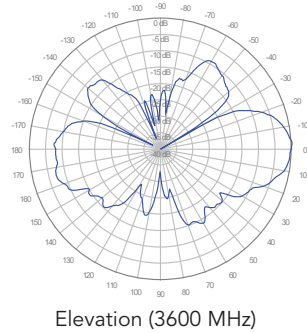
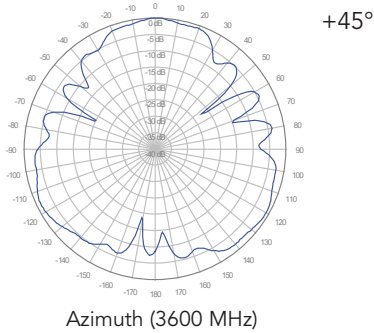
■ Y4, 6° TILT



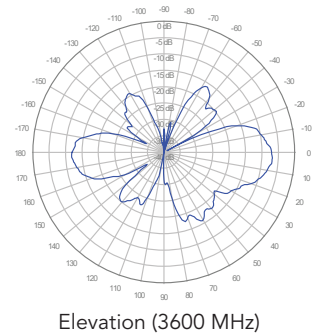
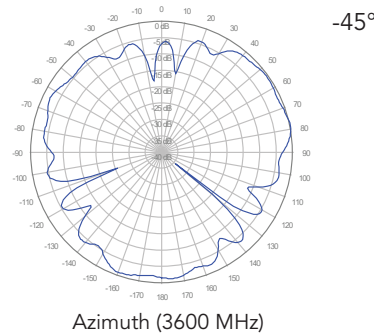
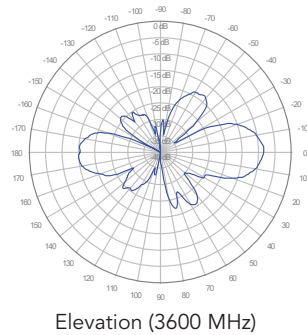
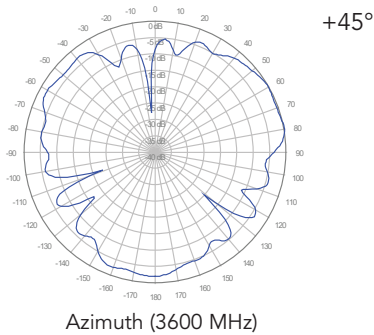
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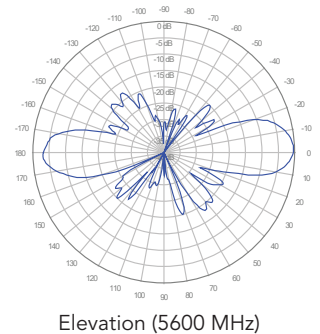
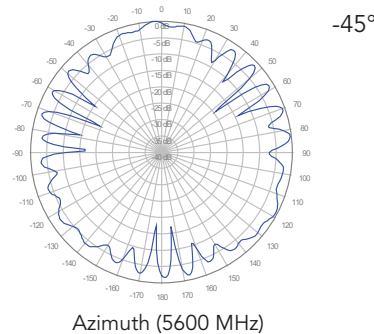
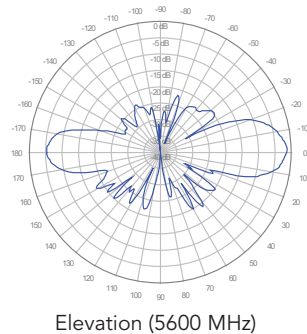
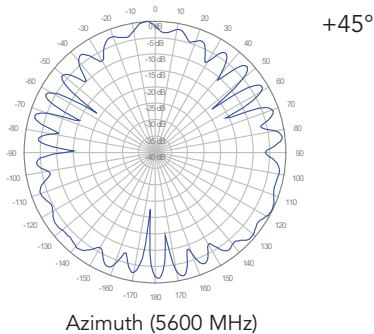
P1, 0° TILT



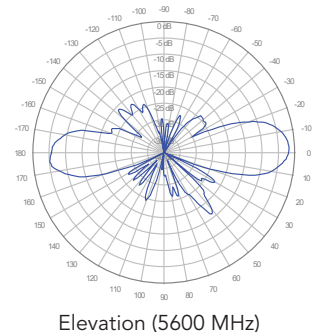
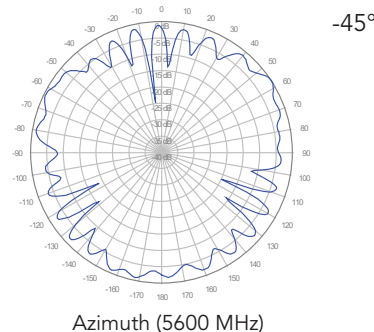
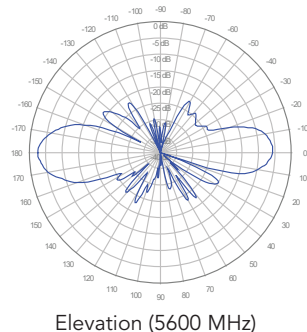
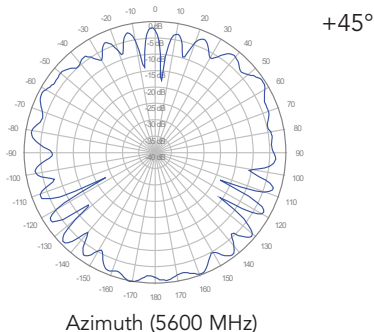
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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