

4U4MT360X06F_{xy}s4-GPS

Features

- 4G/5G pseudo omni configuration with 16 connectors
- Features separate port for integrated GPS unit
- Ideal for multi-carrier or 4X4 MIMO deployments
- New, enhanced mechanical and antenna design
 - Easily removable lifting ring
 - Extended CBRS Band
 - Improvements in gain, port isolation and VSWR
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome



PRODUCT OVERVIEW	Frequency Range (MHz)	GPS BAND	MID BAND				CBRS BAND		LAA BAND	
		1575.42 MHz ± 10 MHz	(4x) 1695-2700				(2x) 3300-4200		(2x) 5150-5925	
	Array	---	■ Y1	■ Y2	■ Y3	■ Y4	■ P1	■ P2	■ O1	■ O2
	Connector	1 PORT	8 PORTS				4 PORTS		4 PORTS	
	Polarization	RIGHT HAND CIRCULAR	XPOL				XPOL		XPOL	
	Azimuth Beamwidth (avg)	---	360°				360°		360°	360°
	Electrical Downtilt	---	2°, 4°, 6°				0°		0°	
	Configuration	OMNI CONFIGURATION WITH INTEGRATED GPS UNIT								
	Connector Type	(16x) 4.3-10 FEMALE and (1x) N-TYPE FEMALE FOR GPS								
	Dimensions	626 x Ø371 mm (24.6 x Ø14.6 in)								
Radome Color Options	GREY, BROWN or BLACK									

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	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) 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			
Input Power		Watts	300W			

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ELECTRICAL SPECIFICATIONS CBRS Band

■ 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	N/A	
Upper Sidelobe Suppression	dB	N/A	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power	Watts	100W	

ELECTRICAL SPECIFICATIONS LAA Band

■ 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
Input Power	Watts	50W	
U-NII Compliant	---	Yes	

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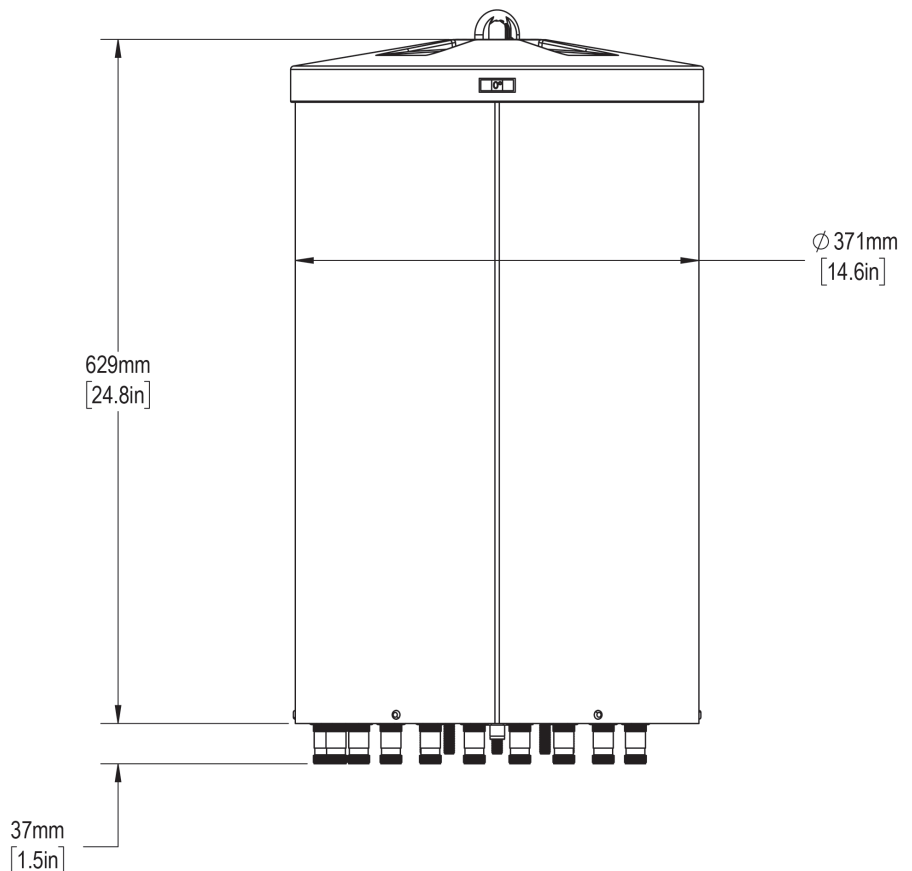
GPS UNIT Integrated

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)	626 (24.6)
	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 and (1x) N-Type Female for GPS
	Position	---	Bottom
Radome Color		---	Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

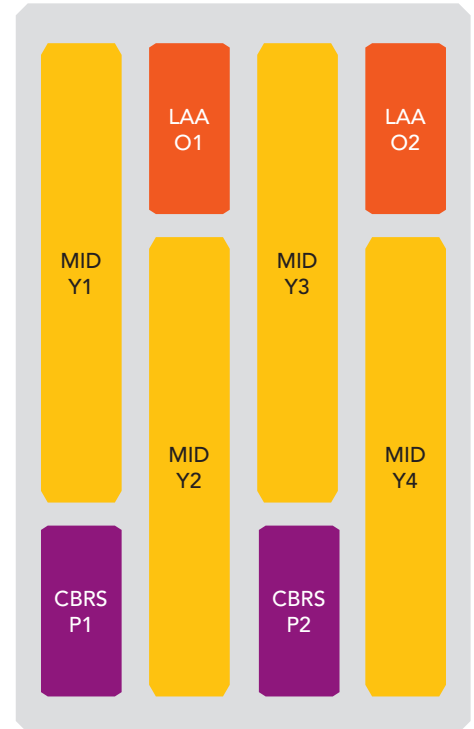


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ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
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	3300-4200	■ P1	9-10 (2x) 4.3-10 Female
	3300-4200	■ 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
GPS BAND	1575.42	---	17 (1x) N-Type Female



The illustration is not shown to scale.

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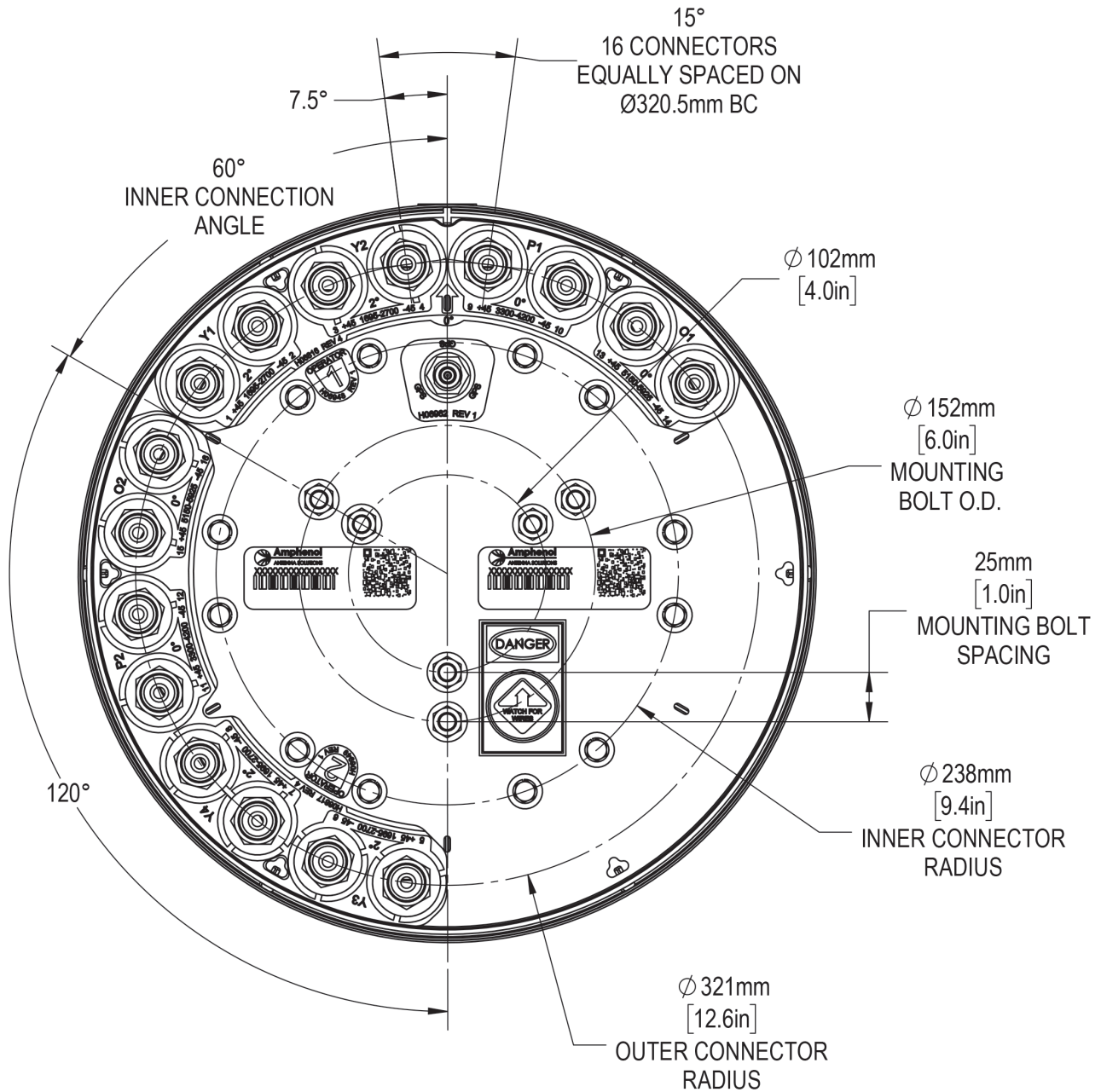
BOTTOM VIEW - LABELING



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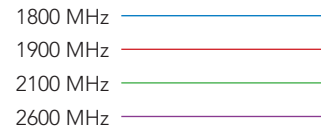
HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	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

ORDERING OPTIONS Select from the following ordering options

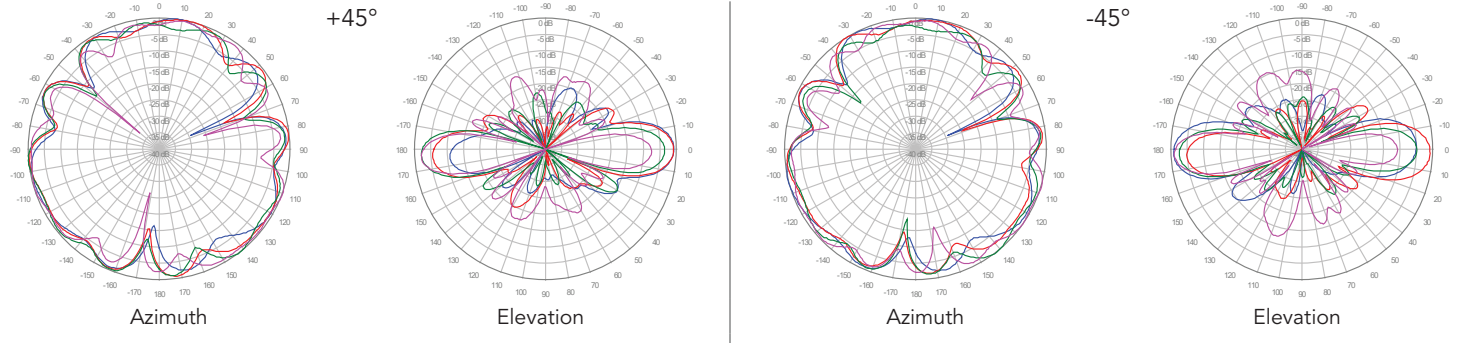
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	2°	0°	0°	4U4MT360X06F20s4-GPS
	4°	0°	0°	4U4MT360X06F40s4-GPS
	6°	0°	0°	4U4MT360X06F60s4-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4-GPS
Brown Pantone 476 C	2°	0°	0°	4U4MT360X06F20s4BR-GPS
	4°	0°	0°	4U4MT360X06F40s4BR-GPS
	6°	0°	0°	4U4MT360X06F60s4BR-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BR-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BR-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BR-GPS
Black RAL 9011	2°	0°	0°	4U4MT360X06F20s4BK-GPS
	4°	0°	0°	4U4MT360X06F40s4BK-GPS
	6°	0°	0°	4U4MT360X06F60s4BK-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BK-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BK-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BK-GPS

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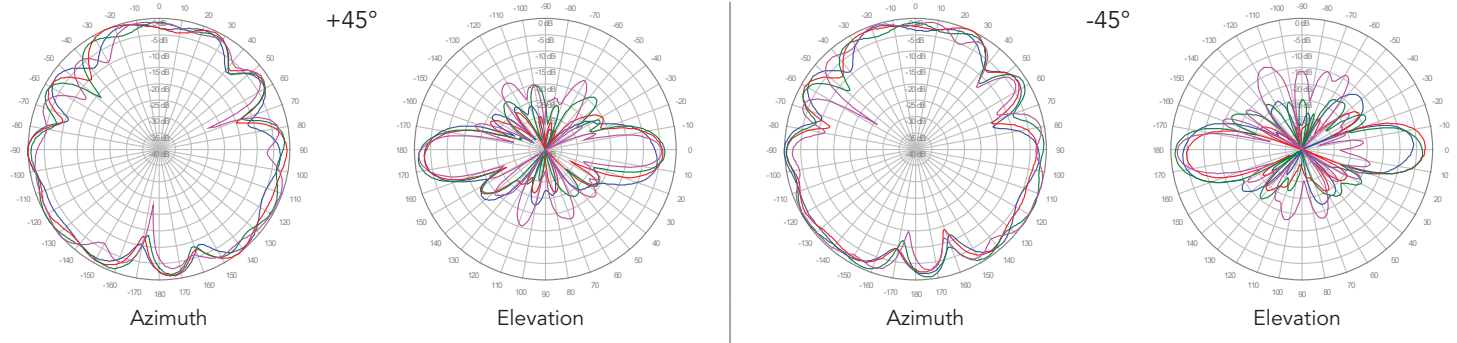


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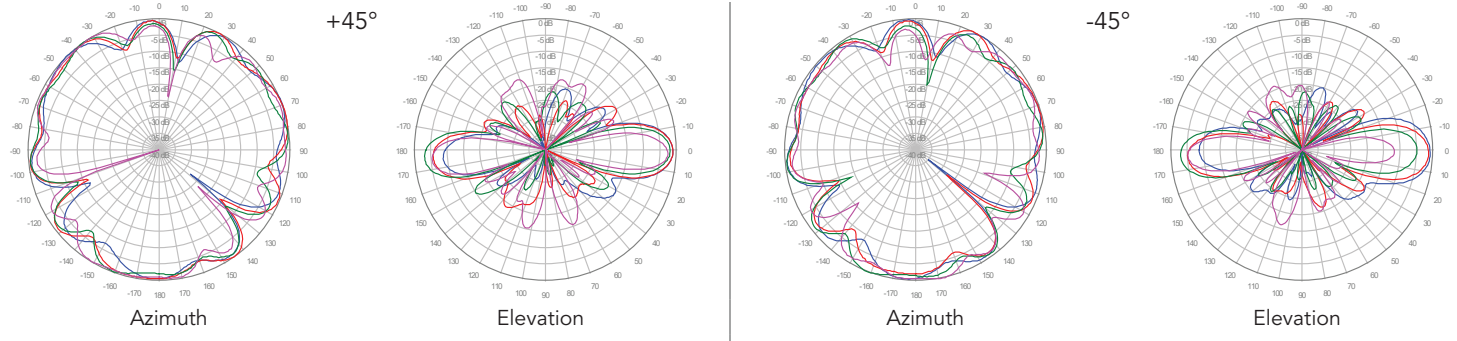
Y1, 2° TILT



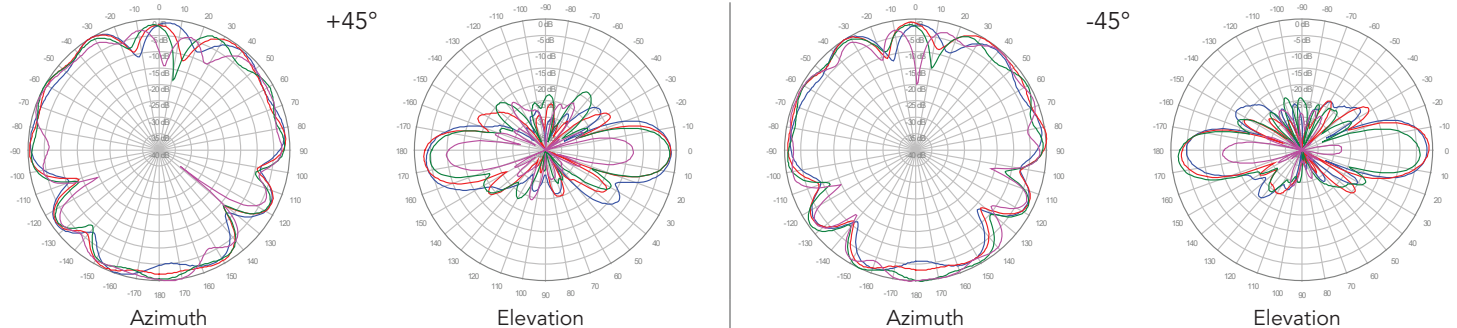
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

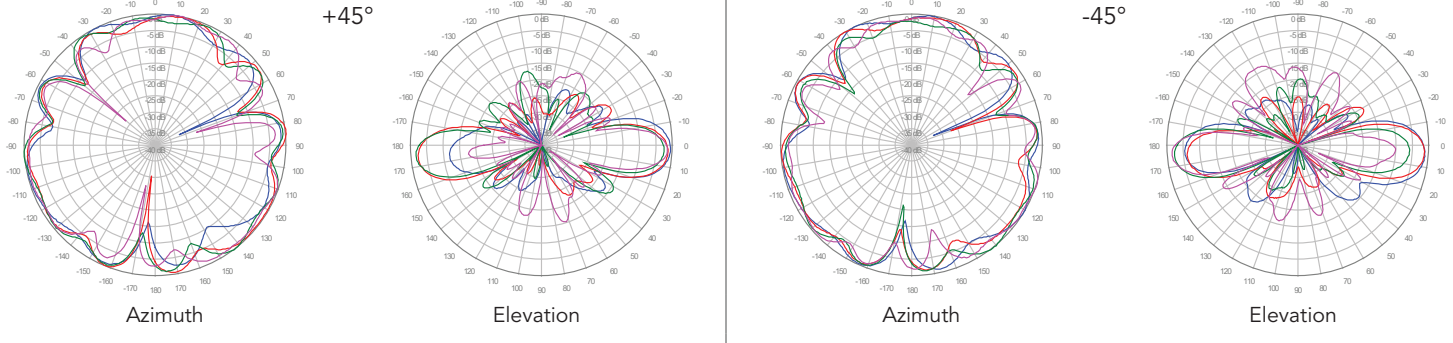


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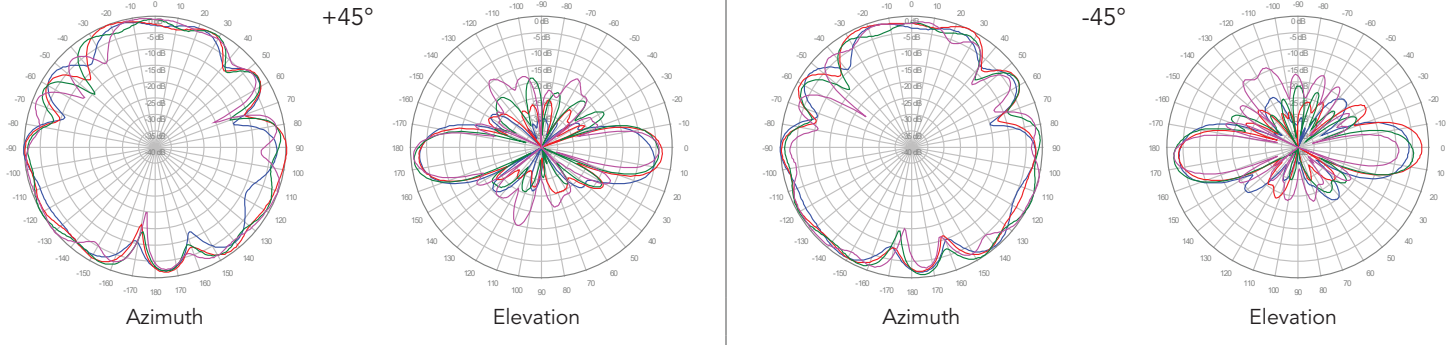
4U4MT360X06F_{xy}s4-GPS

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

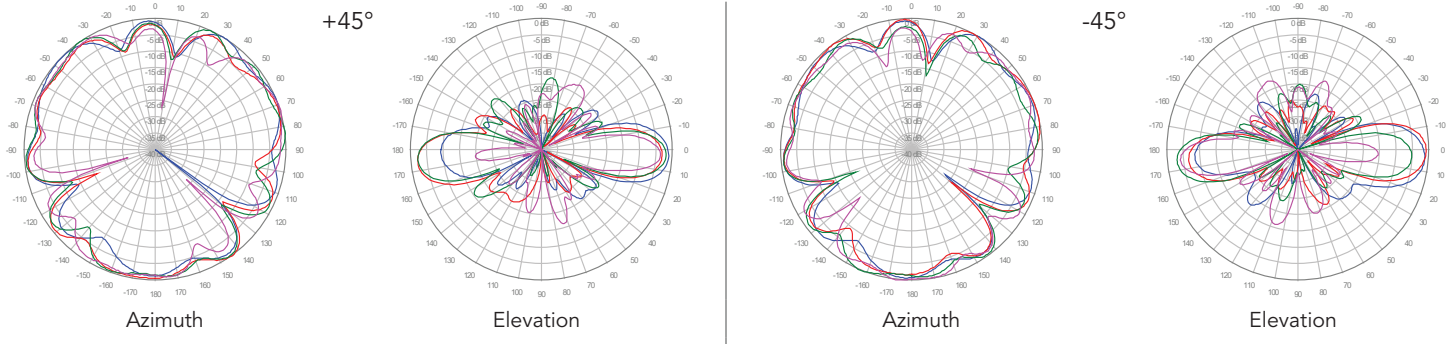
Y1, 4° TILT



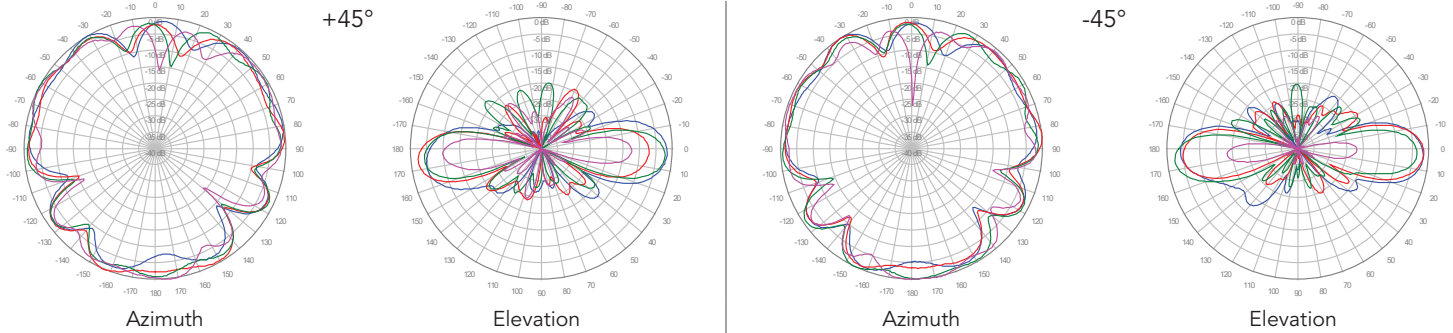
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

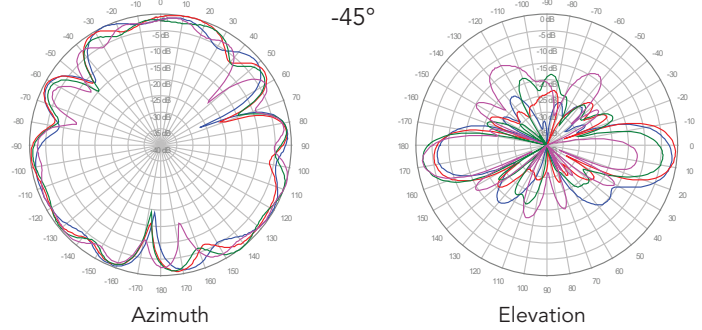
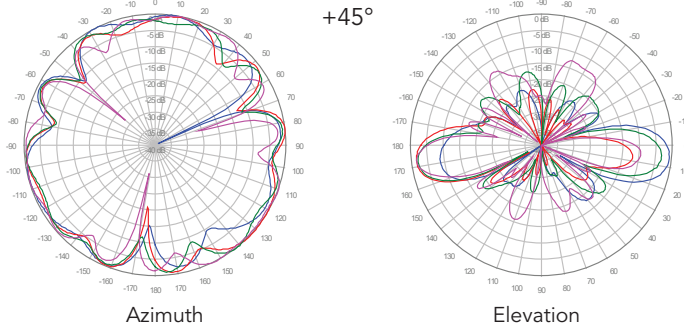


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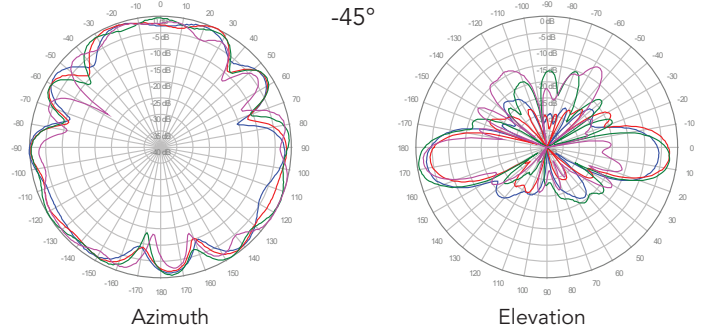
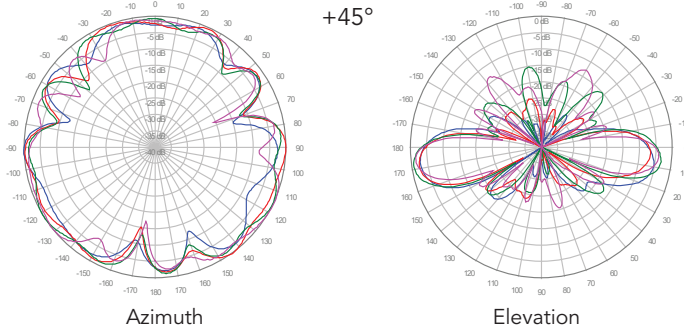
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1800 MHz ———
1900 MHz ———
2100 MHz ———
2600 MHz ———

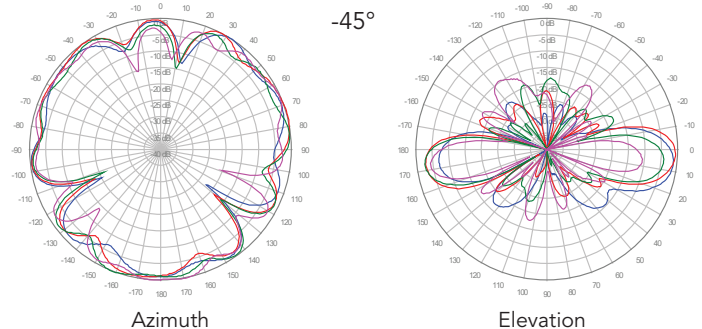
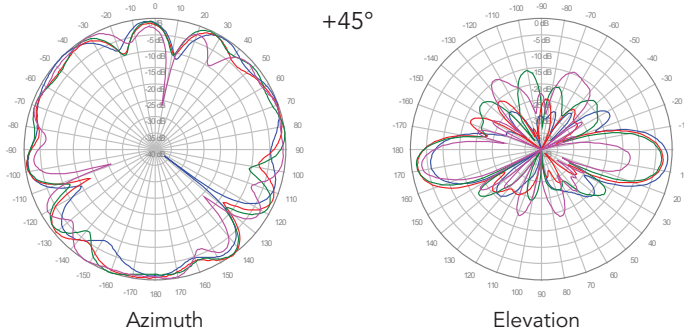
Y1, 6° TILT



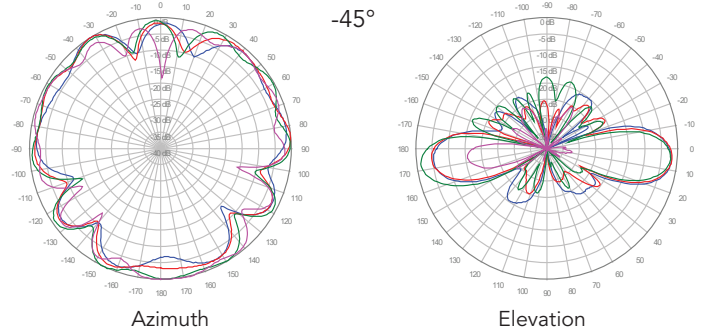
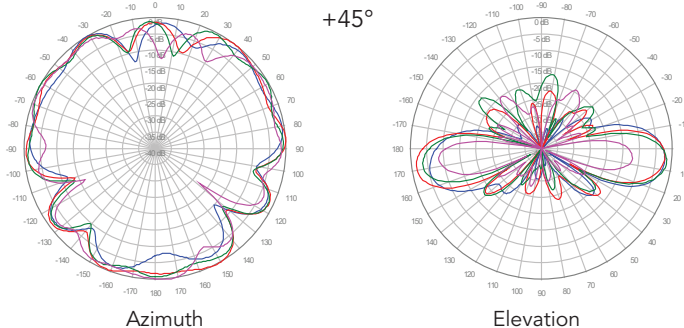
Y2, 6° TILT



Y3, 6° TILT



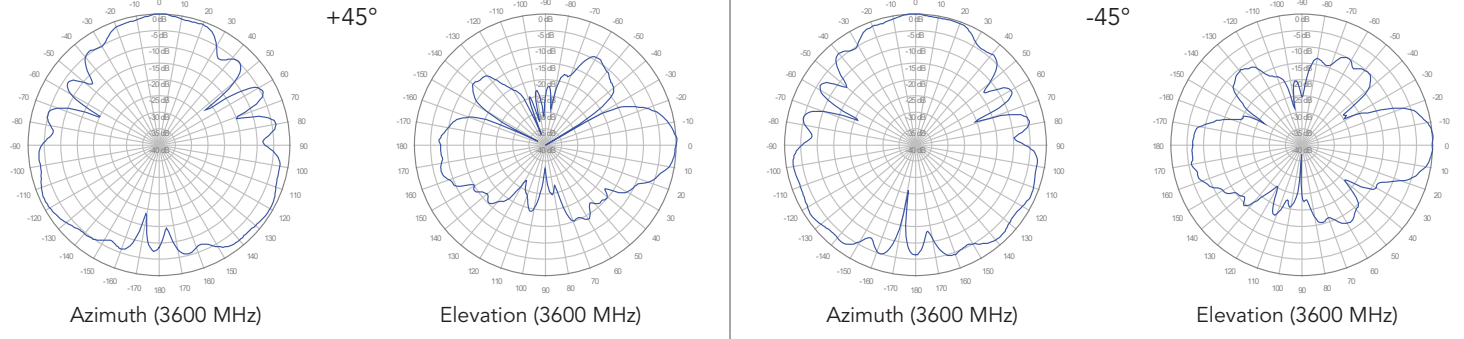
Y4, 6° TILT



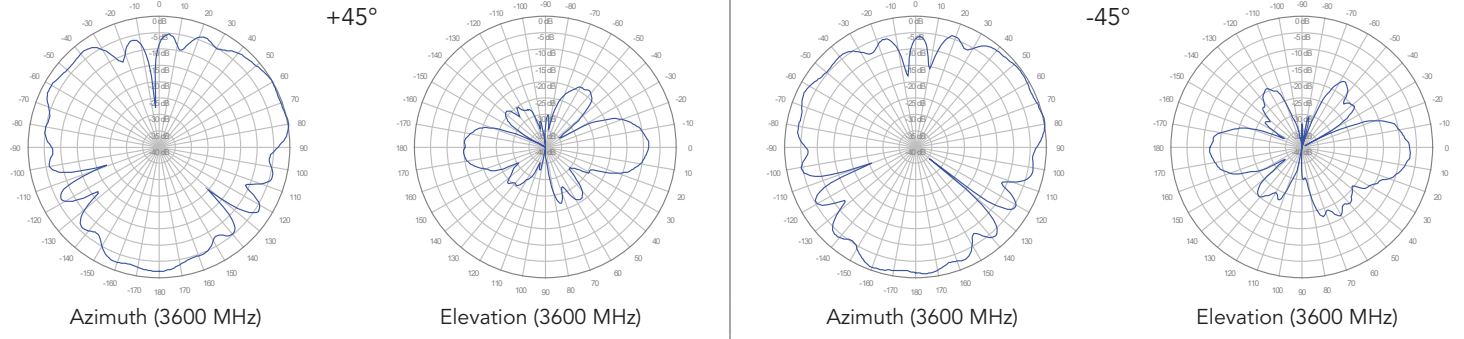
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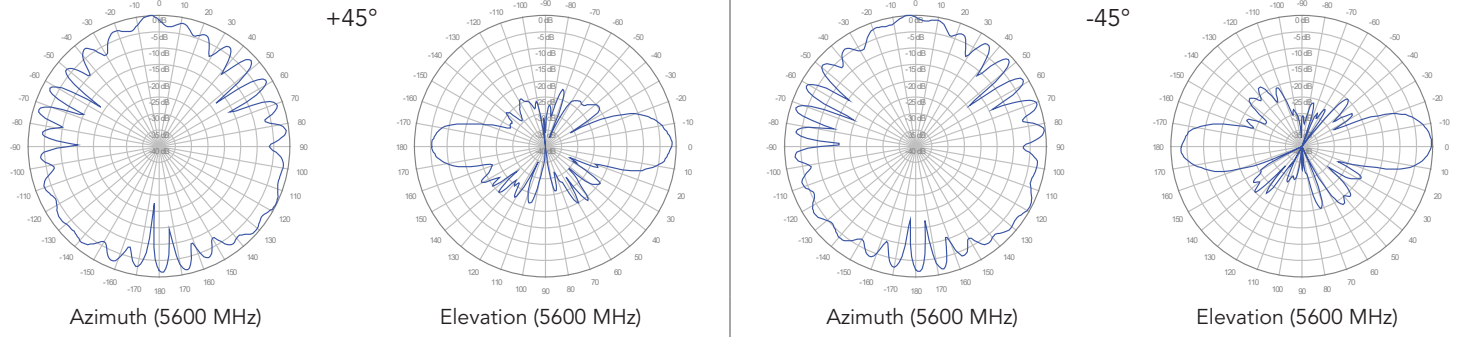
P1, 0° TILT



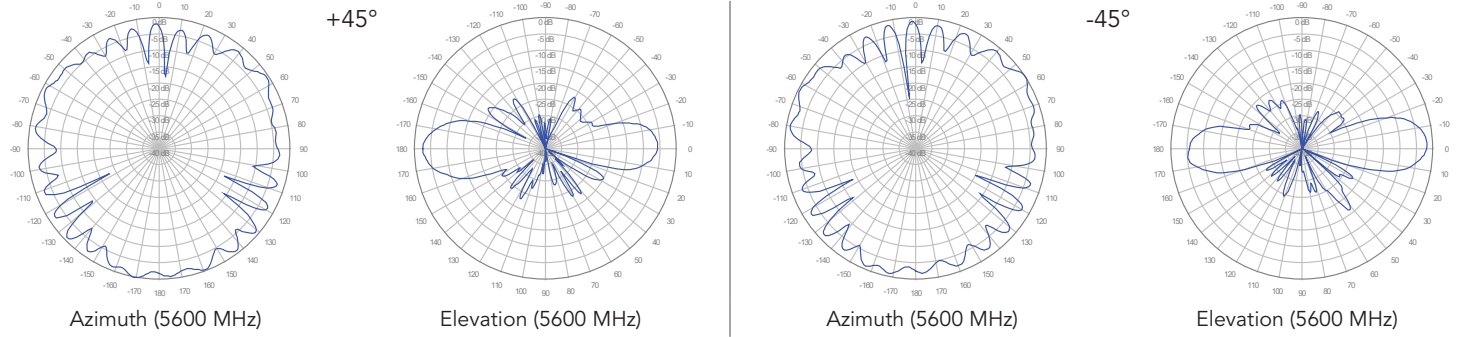
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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