(4x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 24.6 IN FIXED TILT

4U4MTSP1X06Fxys0

Features

- Sector & Omni combination configuration with 24 connectors
- Utilizes 4x4 MIMO on both the sectorized and pseudo omni mid bands
- Ideal for Small Cell / DAS applications
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome



	[MID BAND								CBRS BAND LAA BAN		BAND		
	Frequency Range (MHz)		(4x) 1695-2700 (2x) 3550-3700 (2x) 5150-									50-5925		
	Array	Y1	■ Y2	Y3	Y4	Y5	■ Y6		Y7	№ Y8	■ P1	■ P2	O 1	O 2
IEW	Connector		12 PORTS						4 PC	RTS	4 PORTS		4 PC	ORTS
I.R.	Polarization		XPOL						XP	OL	XPOL		XP	POL
OVERV	Azimuth Beamwidth (avg)		SECTORIZED 2°, 4°, 6°						OMNI		OMNI		01	MNI
5	Electrical Downtilt								•		C)°	()°
Ď	Configuration					SECTO	R & OMN	II CO	MBIN	ATION				
PRO	Total Connector Count	24 PORTS												
								4.3-10 FEMALE						
Dimensions 625 x Ø371 mm (24.6 x Ø14.6 in)														
	Radome Color Options					GR	EY, BROV	VN o	r BLA	CK				

ELECTRICAL S	SPECIFICATIONS	Mid Band - Sector	rized	Y1 Y2 Y3	Y4 Y5 Y	16			
Frequency Range	е	MHz	(4x) 1695-2700						
Frequency Sub-F	Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization				(4x)	±45°				
Cata	BASTA	dBi	12.4 ± 1.2	12.9 ± 1.2	13.1 ± 1.1	13.7 ± 1.1			
Gain	MAX	dBi	13.6	14.1	14.2	14.8			
Azimuth Beamwi	idth (3 dB)	degrees	94.2° ± 18.9°	89.0° ± 15.8°	87.2° ± 8.6°	74.4° ± 13.9°			
Elevation Beamwidth (3 dB)		degrees	22.2° ± 5.4°	21.0° ± 4.0°	20.1° ± 4.0°	16.6° ± 3.4°			
Electrical Downtilt		degrees	(x) 2°, 4°, 6°						
Impedance		Ohms	50Ω						
VSWR			≤ 1.5:1						
Passive Intermod 3rd Order for 2x		dBc	< -153						
Upper Sidelobe	Suppression	dB	> 14 > 14		> 14	> 14			
Landa Cara	Intraband	dB	25						
Isolation	Interband	dB	28						
Input Power Watts			300W						



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Frequency Range MHz			(4x) 1695-2700							
•	<u>-</u>									
Frequency Sub	-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700				
Polarization				(4x)	±45°					
Gain	BASTA	dBi	8.8 ± 0.5	8.8 ± 0.5	9.0 ± 0.6	9.2 ± 0.7				
Gain	MAX	dBi	9.3	9.3	9.6	9.9				
Azimuth Beam	width (3 dB)	degrees	360°	360°	360°	360°				
Elevation Beamwidth (3 dB)		degrees	22.2° ± 5.4°	21.0° ± 4.0°	20.1° ± 4.0°	16.6° ± 3.4°				
Electrical Down	ntilt	degrees	(x) 2°, 4°, 6°							
Impedance		Ohms	50Ω							
VSWR			≤ 1.5:1							
Passive Intermo		dBc	< -153							
Upper Sidelobe Suppression		dB	> 14	> 14 > 14 > 14						
	Intraband	dB	25							
Isolation	Interband	dB	28							
Input Power Watts			300W							

ELECTRICAL SPECIFICATIONS CBRS Band			■ P1 ■ P2				
Frequency Range	Frequency Range		(2x) 3550-3700				
Polarization			(2x) ±45°				
	ASTA	dBi	5.0 ± 0.7				
Gain	AX	dBi	5.7				
Azimuth Beamwi	Azimuth Beamwidth (3 dB)		360°				
Elevation Beamw	Elevation Beamwidth (3 dB)		39.9° ± 7.5°				
Electrical Downti	Electrical Downtilt		(y) 0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.5:1				
Passive Intermod 3rd Order for 2x2		dBc	N/A				
la alastia a	Intraband	dB	25				
Isolation	Interband dB		28				
Input Power	Input Power Watts		100W				



(4x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

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ELECTRICA	ELECTRICAL SPECIFICATIONS LAA Band 01 02						
Frequency R	Frequency Range MHz		(2x) 5150-5925				
Polarization	Polarization		(2x) ±45°				
6 :	BASTA	dBi	5.1 ± 0.7				
Gain	MAX	dBi	5.8				
Azimuth Bea	mwidth (3 dB)	degrees	360°				
Elevation Be	Elevation Beamwidth (3 dB)		23.2° ± 4.3°				
Electrical Do	Electrical Downtilt		(y) O°				
Impedance	Impedance		50Ω				
VSWR			≤ 1.5:1				
Passive Inter 3rd Order fo	modulation r 2x20 W Carriers	dBc	N/A				
Upper Sidelo	bbe Suppression	dB	> 14 dB				
T. T. et	Intraband	dB	25				
Isolation	Interband	dB	28				
Input Power Watts 50W		50W					
U-NII Compliant			Yes				



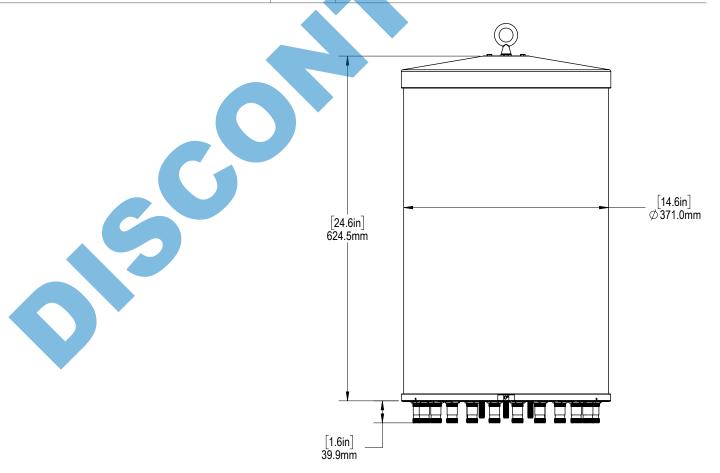


SECTOR / OMNI COMBINATION 24.6 IN FIXED TILT

4U4MTSP1X06Fxys0

MECHANICAL SPECIFICATIONS

anna	Height		mm (in)	625 (24.6)			
Antenna	Diameter		mm (in)	371 (14.6)			
Net W	Veight - Antenna Only		kg (lbs)	13.6 (30.0)			
\\/: -	Windload		km/h (mph)	160 (100)			
vvinai			N (lbf)	191 (43)			
Surviv	Survival Wind Speed		km/h (mph)	241 (150)			
Wind	Wind Area		m² (ft²)	0.22 (2.4)			
Volum	ne		m³ (ft³)	0.07 (2.3)			
		Туре		4.3-10 Female			
Conne	ector	Quantity		24			
		Position		Bottom			
Rador	Radome Color			Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)			
Lightn	Lightning Protection (Grounding Type)			Direct Ground			

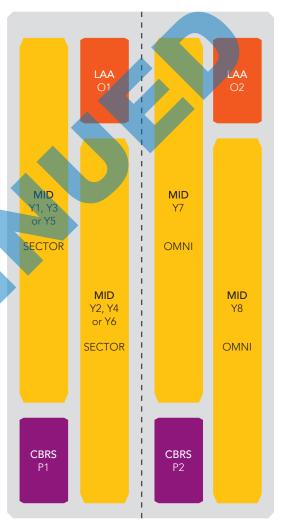


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4U4MTSP1X06Fxys0

ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
	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
MID DANID	1695-2700	■ Y4	7-8	(2x) 4.3-10 Female
MID BAND	1695-2700	■ Y5	9-10	(2x) 4.3-10 Female
	1695-2700	■ Y6	11-12	(2x) 4.3-10 Female
	1695-2700	■ Y7	13-14	(2x) 4.3-10 Female
	1695-2700	■ Y8	15-16	(2x) 4.3-10 Female
CDDC DAND	3550-3700	■ P1	17-18	(2x) 4.3-10 Female
CBRS BAND	3550-3700	■ P2	19-20	(2x) 4.3-10 Female
LAA DANID	5150-5925	O 1	21-22	(2x) 4.3-10 Female
LAA BAND	5150-5925	O 2	23-24	(2x) 4.3-10 Female
	C			



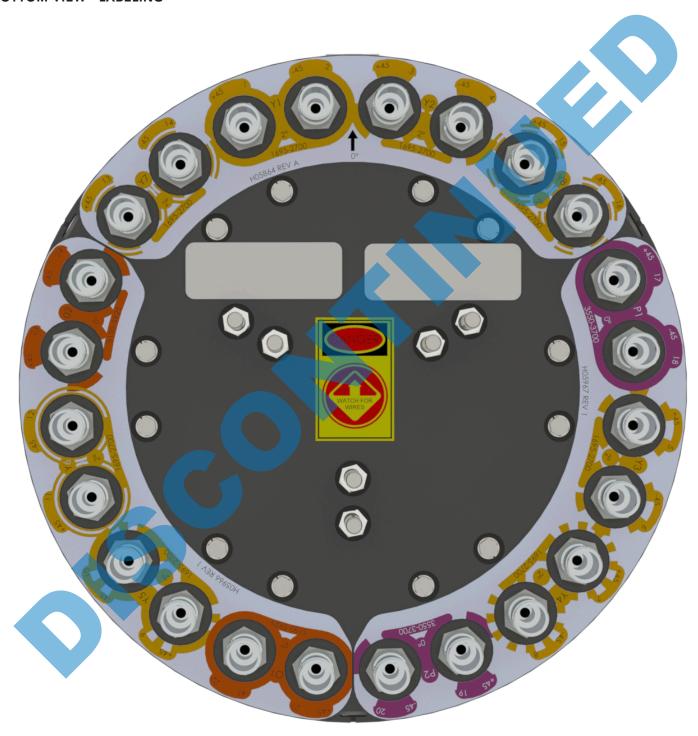
The illustration is not shown to scale.



SECTOR / OMNI COMBINATION 24.6 IN FIXED TILT

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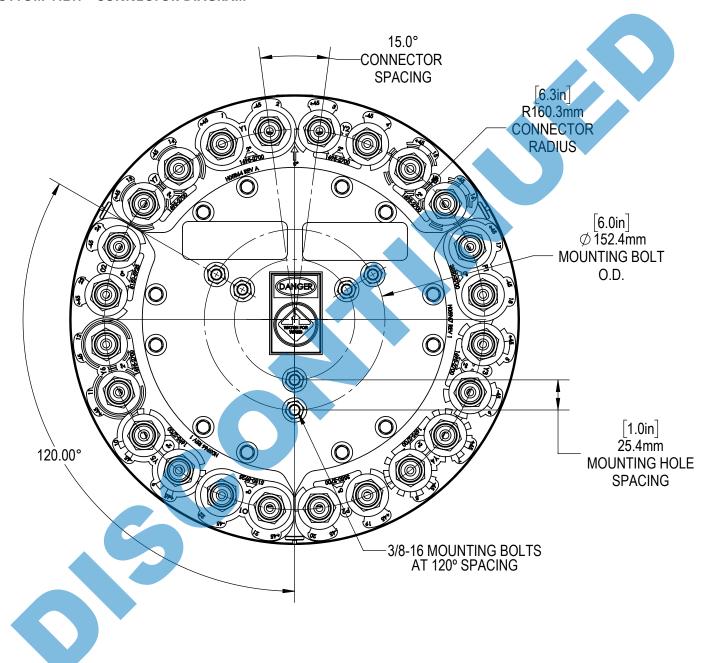
BOTTOM VIEW - LABELING



SECTOR / OMNI COMBINATION 24.6 IN FIXED TILT

4U4MTSP1X06Fxys0

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.

(4x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 24.6 IN FIXED TILT

4U4MTSP1X06Fxys0

MOUNTING KITS. Select from the following mounting options when ordering. Mounting lits for canister antennas are ordered as a separate line its

MOUNTING KITS S	elect from the following mounting o	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.

	BER OF BA		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
4U	4	М	Т	SP1	X	06	F	xy	S	0	BK BR
(4x) 1695- 2700	(2x) 3550- 3700	(2x) 5150- 5925	Tri-Sector	Sector and Pseudo Omni Combination	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	Original variation	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.

ORDERING OPTIONS Select from the following ordering options

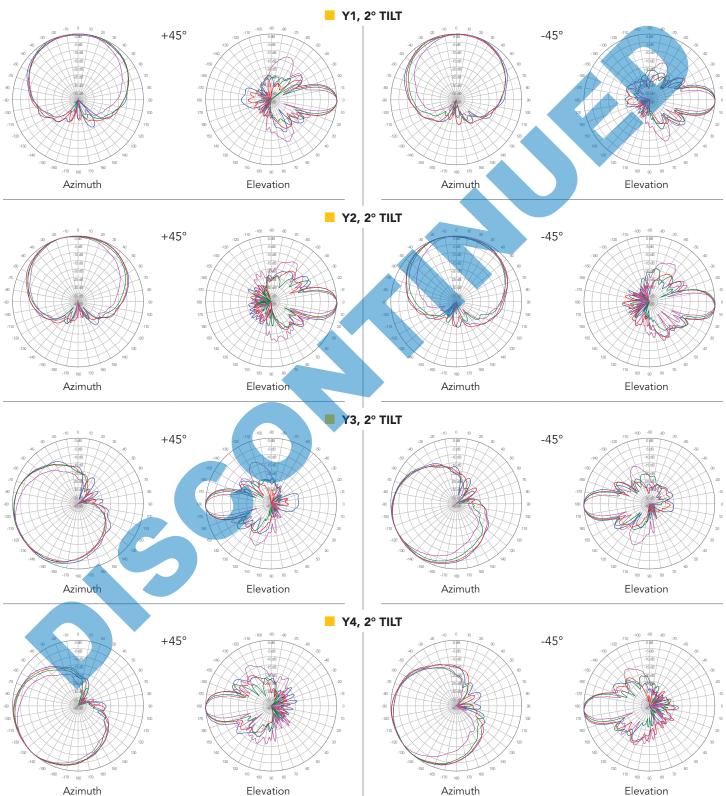
SELECT	SELECT DEGREE O	F ELECTRICAL DOWNTIL	ORDER		
RADOME COLOR	MID BAND	CBRS BAND	LAA BAND	MODEL NUMBER	
	2°	0°	0°	4U4MTSP1X06F20s0	
	4°	0°	0°	4U4MTSP1X06F 40 s0	
Grey Pantone 420 C	6°	0°	0°	4U4MTSP1X06F60s0	
	Y1-Y6=6°; Y7-Y8=2°	O°	0°	4U4MTSP1X06FAAs0	
	Y1-Y6=4°; Y7-Y8=2°	O°	0°	4U4MTSP1X06FBBs0	
	2°	O°	0°	4U4MTSP1X06F20s0BR	
	4°	0°	0°	4U4MTSP1X06F40s0BR	
Brown Pantone 476 C	6°	0°	0°	4U4MTSP1X06F60s0BR	
	Y1-Y6=6°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FAAs0BR	
	Y1-Y6=4°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FBBs0BR	
	2°	0°	0°	4U4MTSP1X06F20s0BK	
	4°	0°	0°	4U4MTSP1X06F40s0BK	
Black RAL 9011	6°	O°	0°	4U4MTSP1X06F60s0BK	
	Y1-Y6=6°; Y7-Y8=2°	O°	0°	4U4MTSP1X06FAAs0BK	
	Y1-Y6=4°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FBBs0BK	

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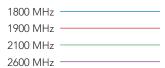


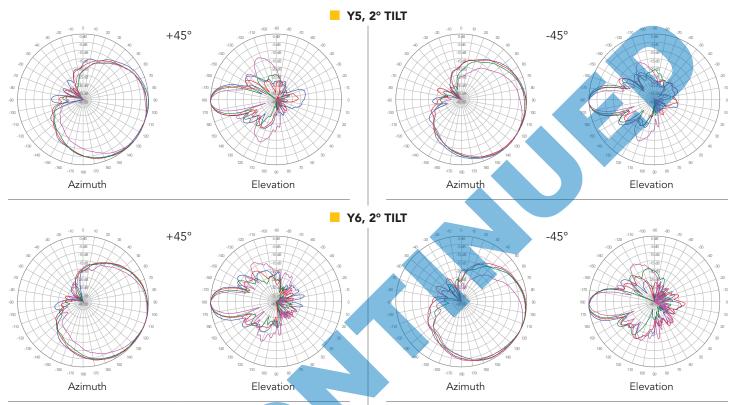


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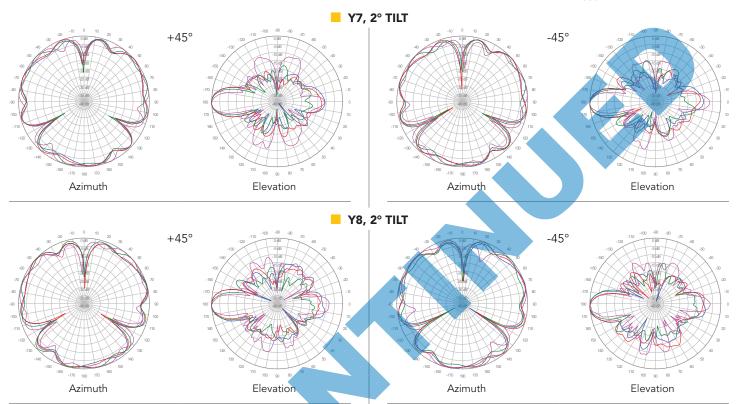


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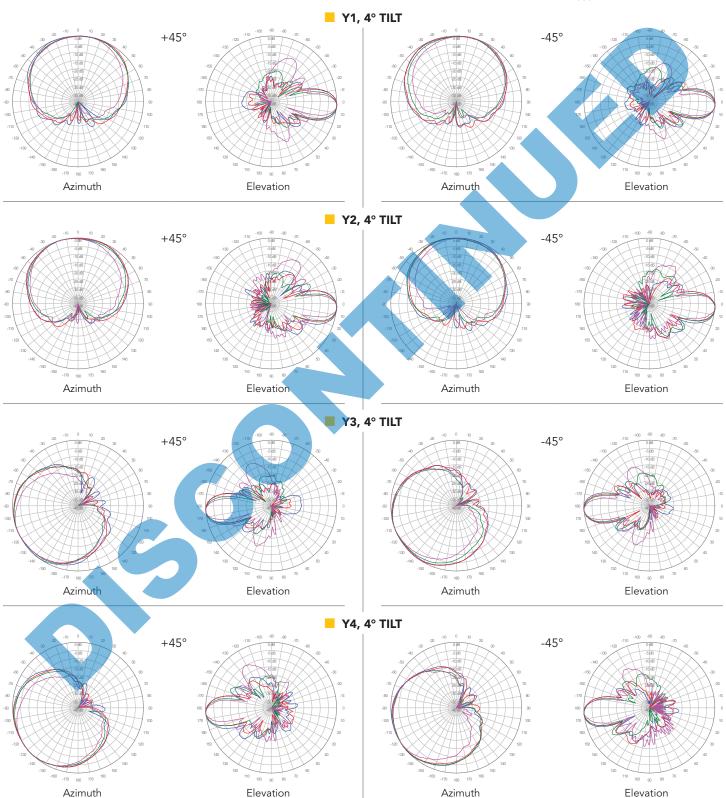


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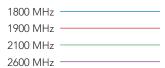


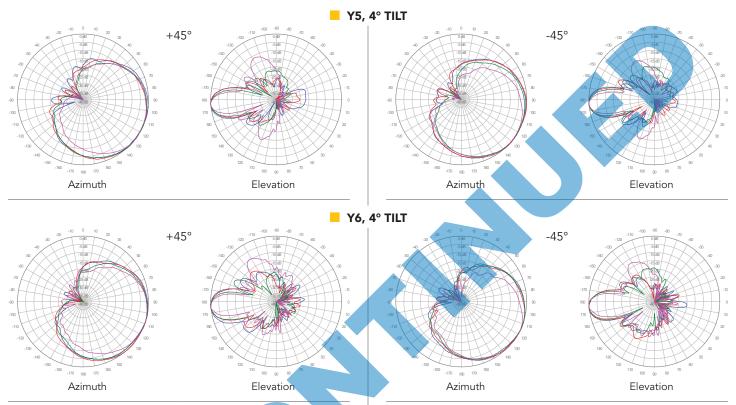


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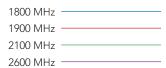


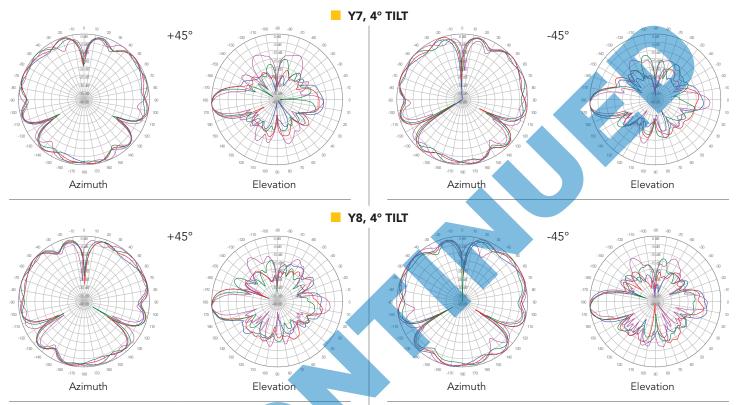


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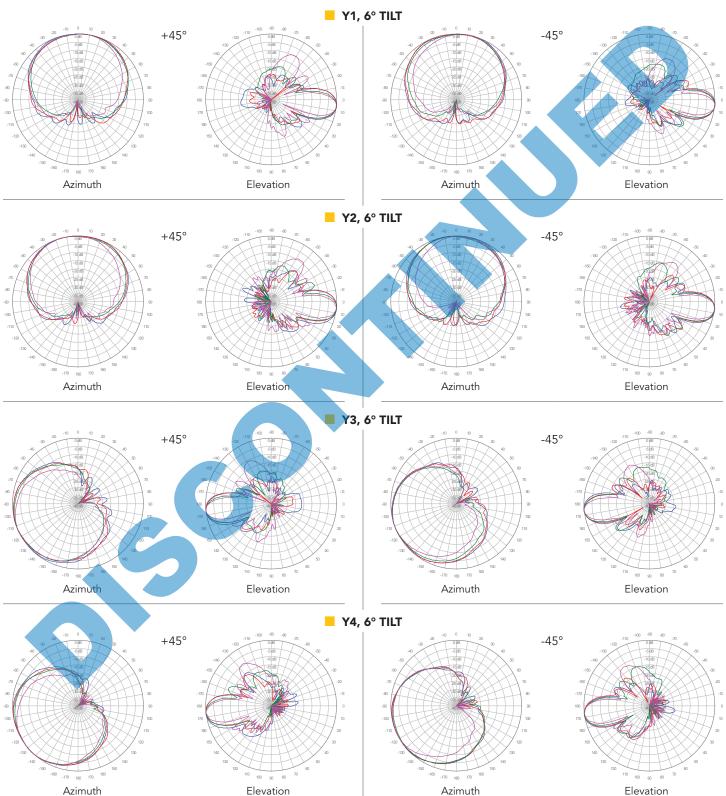


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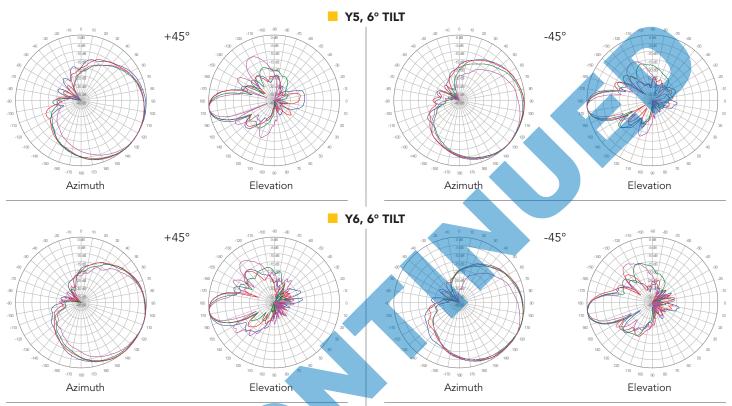


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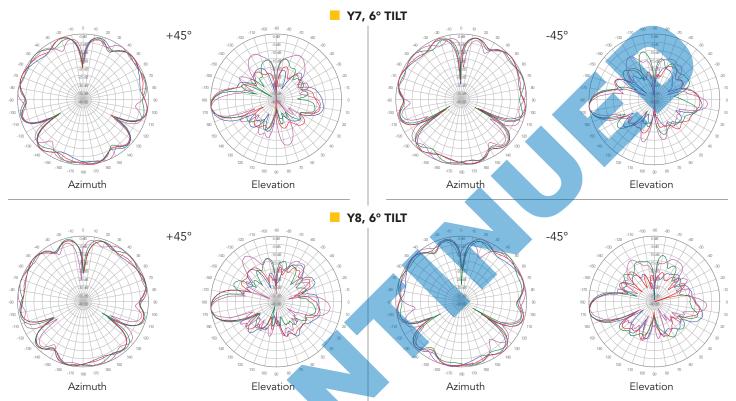


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