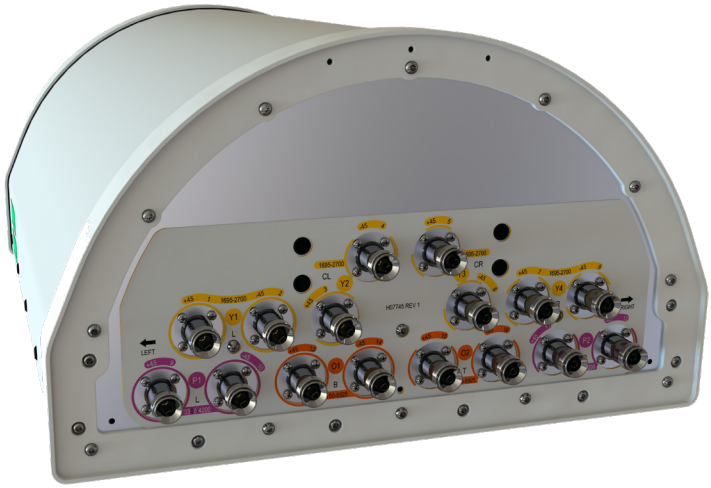
16-Port Panel Antenna

(4x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

65° | 24.7 in | FIXED TILT

4U4MX065X06Fxys4



Features

- Fixed tilt panel antenna for directional coverage of 4G/5G small cell applications
- 4x4 MIMO capable with 16 connectors
- Operates at full N77 Band
- This antenna meets the U-NII specifications

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)	70°	40°	71°
	Electrical Downtilt	2°, 4°, 6°	0°	0°
	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	628 x 457 x 268 mm (24.7 x 18.0 x 10.6)		
	Radome Color Options	GREY		

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	12.7 ± 0.8	13.5 ± 1.0	13.2 ± 1.2	13.1 ± 1.0
	MAX	dBi	13.5	14.5	14.4	14.1
Azimuth Beamwidth (3 dB)		degrees	80.9° ± 8.9°	79.8° ± 11.0°	78.9° ± 10.7°	72.7° ± 12.9°
Elevation Beamwidth (3 dB)		degrees	21.1° ± 1.7°	19.5° ± 1.5°	18.7° ± 1.6°	15.7° ± 1.5°
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	> 15			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

4U4MX065X06Fxys4

ELECTRICAL SPECIFICATIONS			P1	P2	
Frequency Range		MHz	(2x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(2x) ±45°		
Gain	BASTA	dBi	9.9 ± 0.5	10.3 ± 0.6	10.8 ± 0.7
	MAX	dBi	10.4	10.9	11.5
Azimuth Beamwidth (3 dB)		degrees	61.3° ± 12.2°	66.2° ± 9.9°	65.5° ± 9.3°
Elevation Beamwidth (3 dB)		degrees	34.8° ± 3.1°	32.3° ± 2.8°	29.7° ± 2.8°
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	4.8 ± 0.8	
	MAX	dBi	5.6	
Azimuth Beamwidth (3 dB)		degrees	70.8° ± 10.1°	
Elevation Beamwidth (3 dB)		degrees	21.7° ± 1.7°	
Electrical Downtilt		degrees	(y) 0°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBm (dBc)	N/A	
Upper Sidelobe Suppression		dB	U-NII Compliant	
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	
U-NII Compliant		---	Yes	

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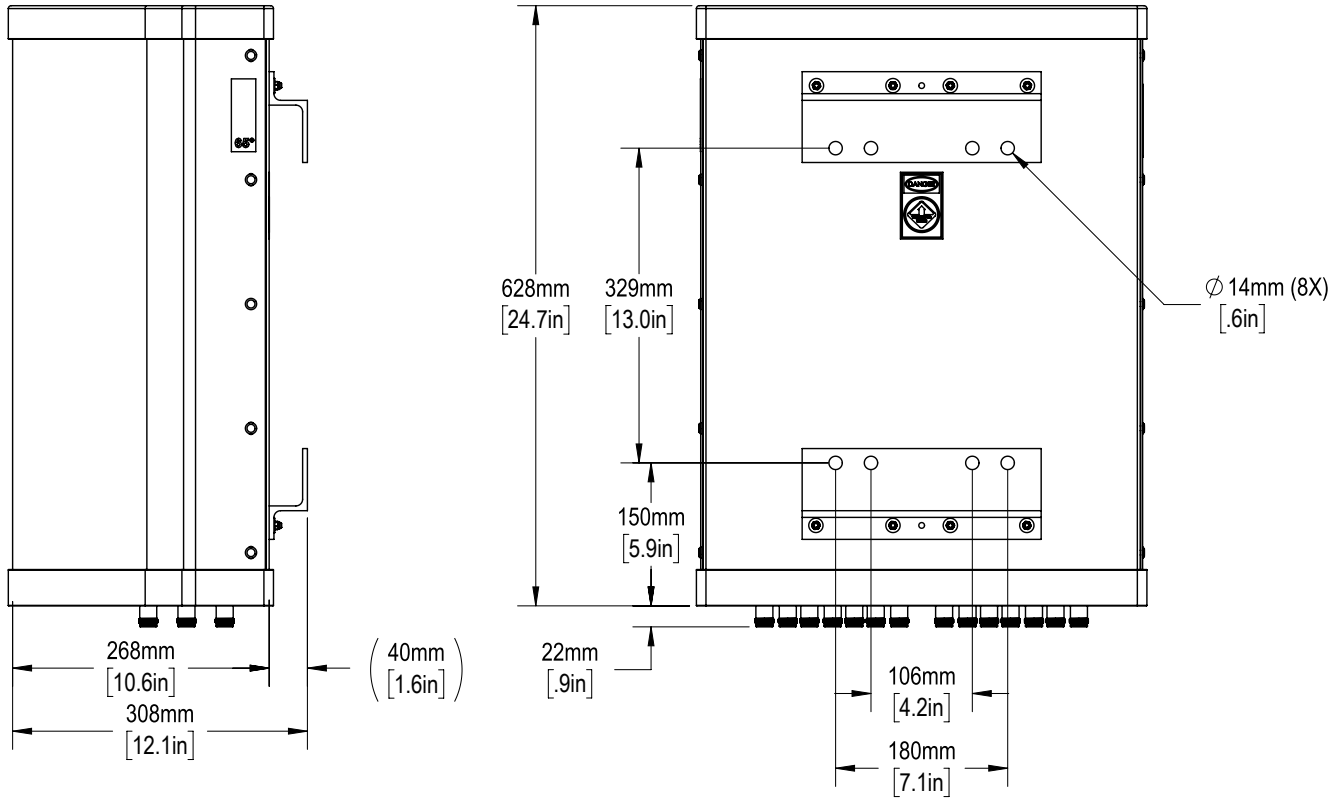
MECHANICAL SPECIFICATIONS

Antenna	Length		mm (in)	628 (24.7)
	Width		mm (in)	457 (18.0)
	Depth		mm (in)	268 (10.6)
Net Weight - Antenna Only			kg (lbs)	10.4 (23)
Windload		Calculation	km/h (mph)	160 (100)
		Front	N (lbf)	309 (69)
		Side	N (lbf)	144 (32)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area		Front	m^2 (ft^2)	0.25 (2.7)
		Side	m^2 (ft^2)	0.11 (1.2)
Connector		Type	---	4.3-10 Female
		Quantity	---	16
		Position	---	Bottom
Radome Color			---	Grey
Operating Temperature			degrees	-40 to +60 C (-40 to +140 F)
Lightning Protection (Grounding Type)			---	Direct Ground



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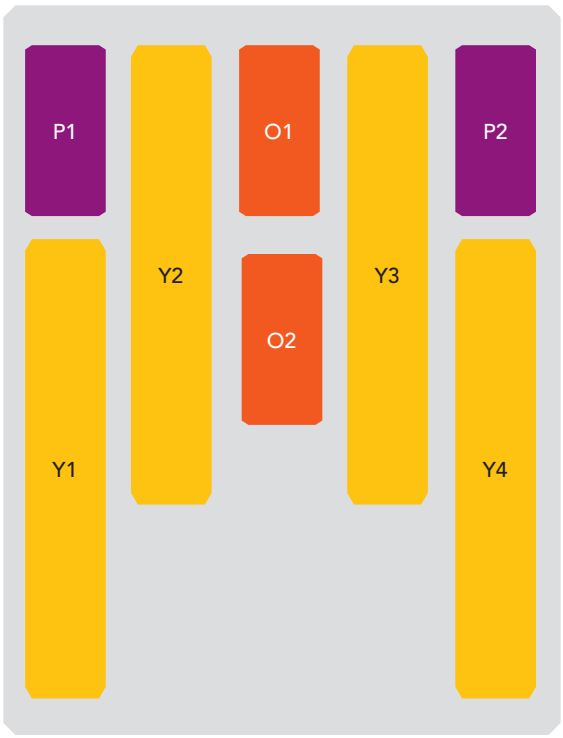
ARRAY LAYOUT Topology

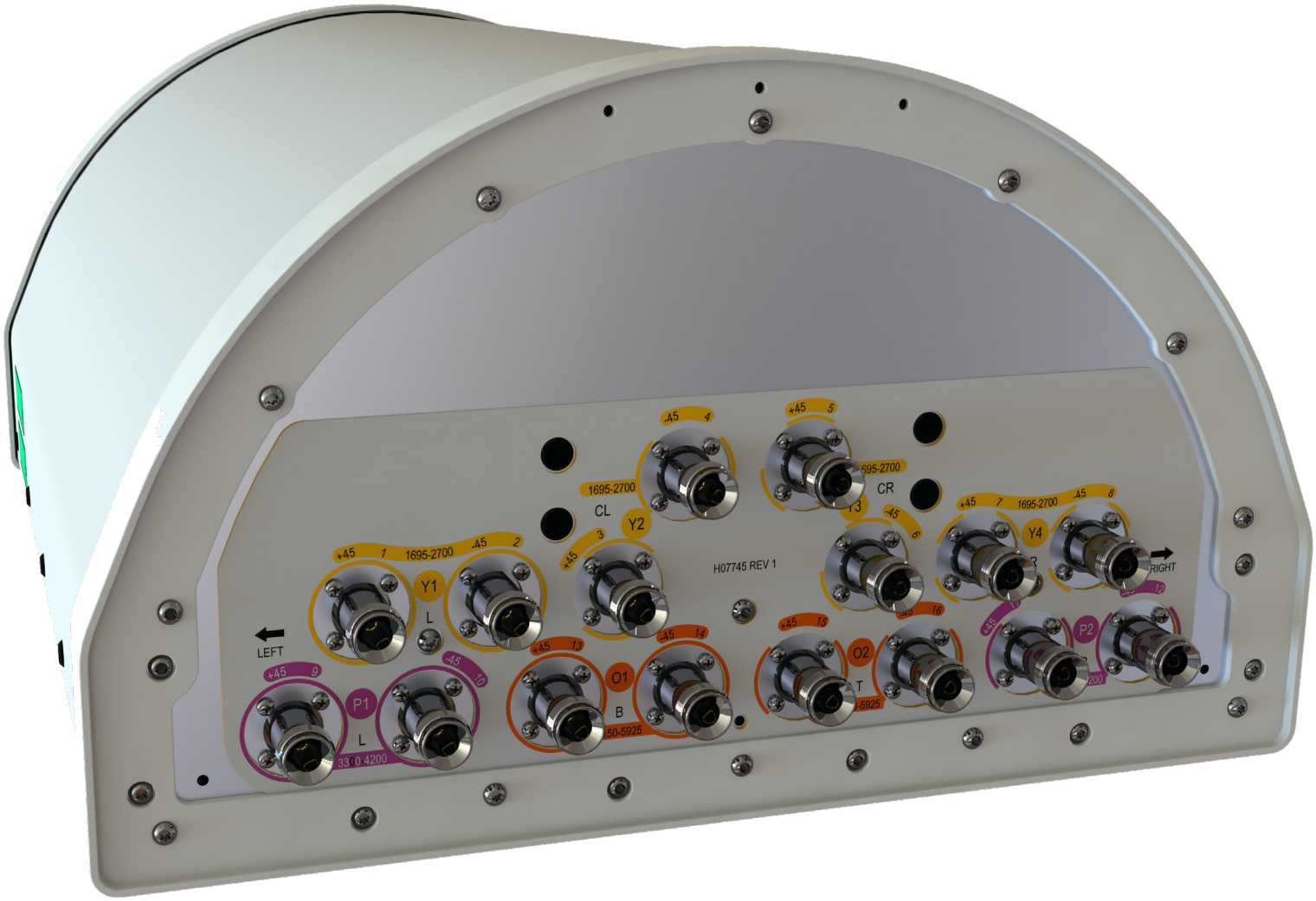
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y4	7-8	(2x) 4.3-10 Female
3300-4200 MHz	P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	P2	11-12	(2x) 4.3-10 Female
5150-5925 MHz	O1	13-14	(2x) 4.3-10 Female
5150-5925 MHz	O2	15-16	(2x) 4.310 Female



The illustration is not shown to scale.

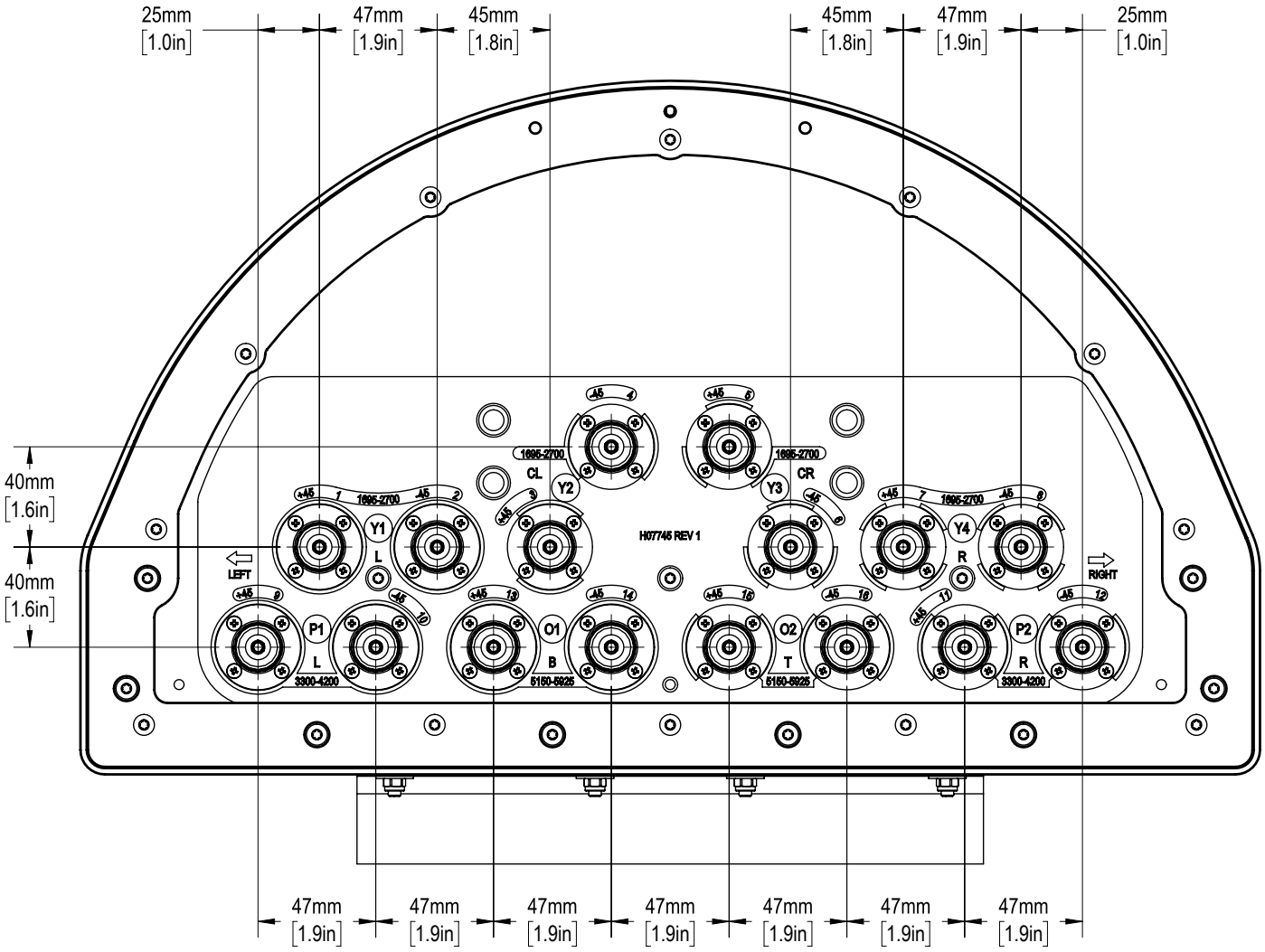
4U4MX065X06Fxys4

BOTTOM VIEW - LABELING



4U4MX065X06Fxys4

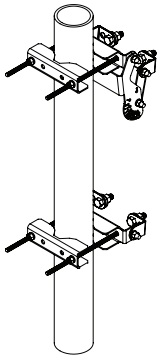
BOTTOM VIEW - CONNECTOR DIAGRAM



CONNECTOR END VIEW

4U4MX065X06Fxys4

MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
36210006 	2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT	40-115 mm (1.57-4.5 in)	4.1 kg (9 lbs)

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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4U4MX065X06Fxys4

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

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
4U	4M		X	065	X	06	F	xy	s	4	-T
(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Standard Panel Antenna	65°	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	To order the antenna and mounting kit together as one line item, add a -T to the end of the model number. If -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket.

ORDERING OPTIONS Select from the following ordering options

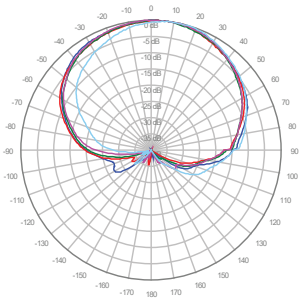
SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	MID BAND	CBRS BAND	LAA BAND	
ANTENNA ONLY - NO MOUNTING KIT	2°	0°	0°	4U4MX065X06F20s4
	4°	0°	0°	4U4MX065X06F40s4
	6°	0°	0°	4U4MX065X06F60s4
	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	4U4MX065X06FAAs4
	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	4U4MX065X06FBBs4
	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	4U4MX065X06FCCs4
ANTENNA WITH **36210006** MOUNTING KIT 2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	2°	0°	0°	4U4MX065X06F20s4-T
	4°	0°	0°	4U4MX065X06F40s4-T
	6°	0°	0°	4U4MX065X06F60s4-T
	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	4U4MX065X06FAAs4-T
	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	4U4MX065X06FBBs4-T
	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	4U4MX065X06FCCs4-T

4U4MX065X06Fxys4

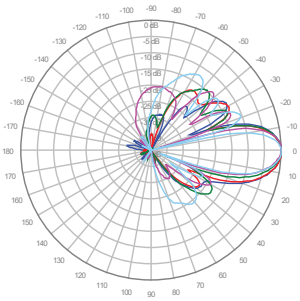
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°

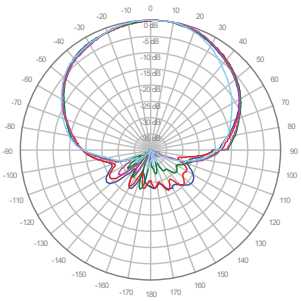


Azimuth



Elevation

-45°



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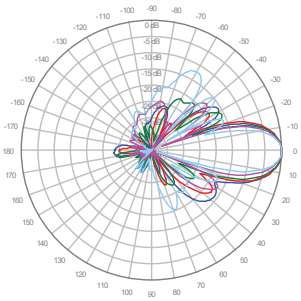
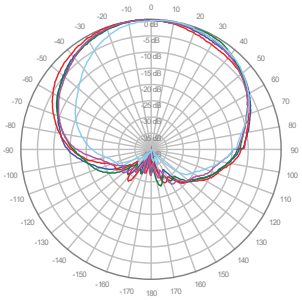


Elevation

Y2, 2° TILT

+45°



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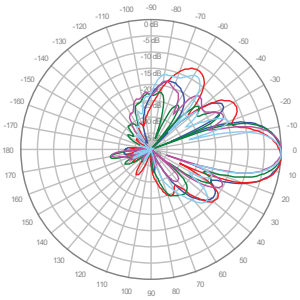
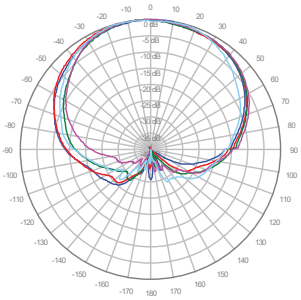
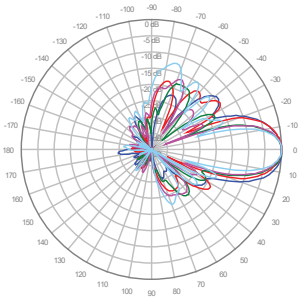


Elevation

-45°



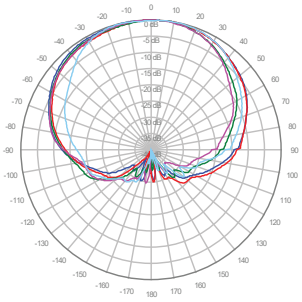
Azimuth



Elevation

Y3, 2° TILT

+45°



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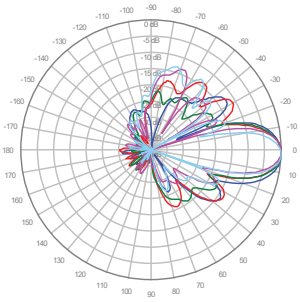
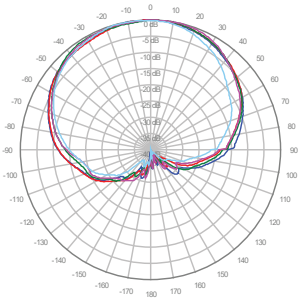


Elevation

-45°



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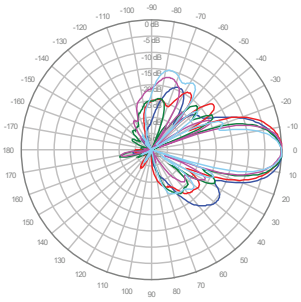
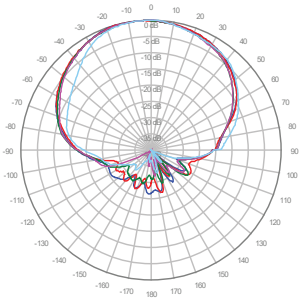


Elevation

Y4, 2° TILT

+45°



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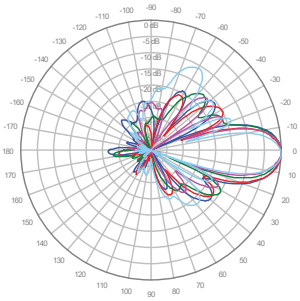
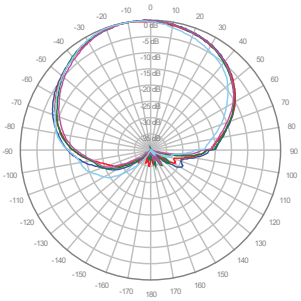


Elevation

-45°



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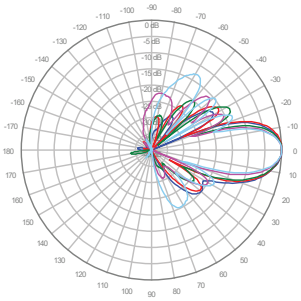


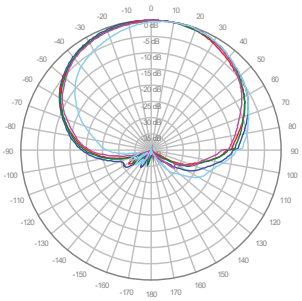
Elevation

4U4MX065X06Fxys4

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°



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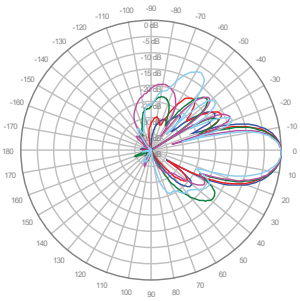
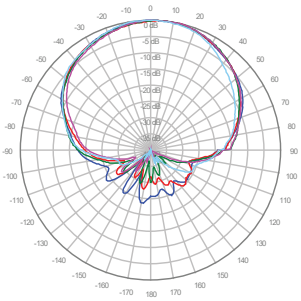


Elevation

-45°



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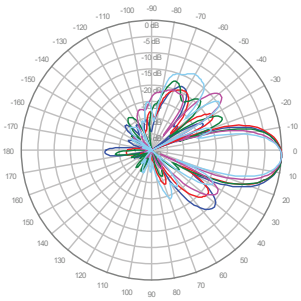
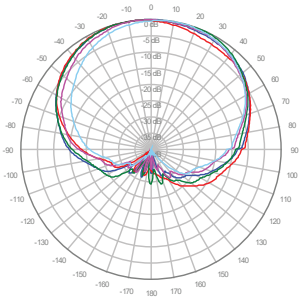


Elevation

Y2, 4° TILT

+45°



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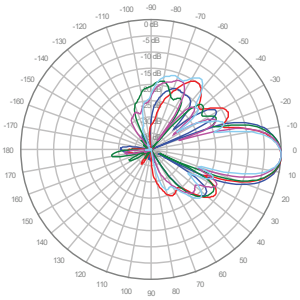
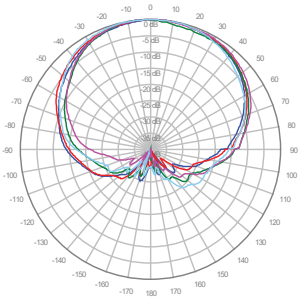


Elevation

-45°



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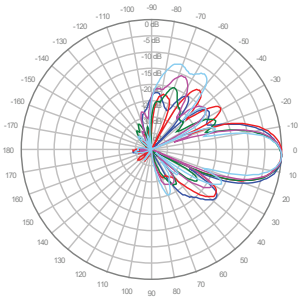
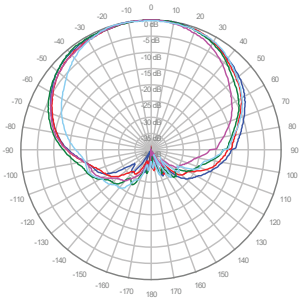


Elevation

Y3, 4° TILT

+45°



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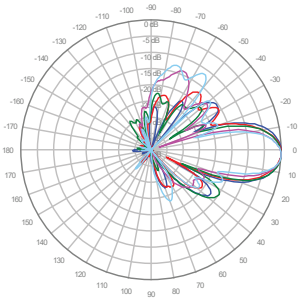
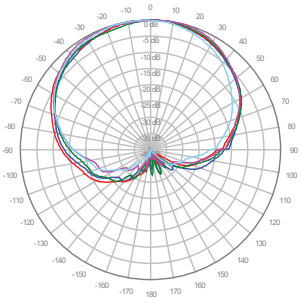


Elevation

-45°



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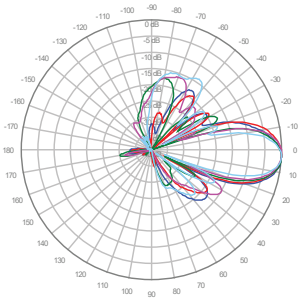
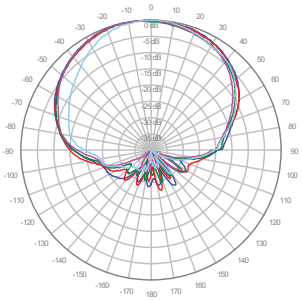


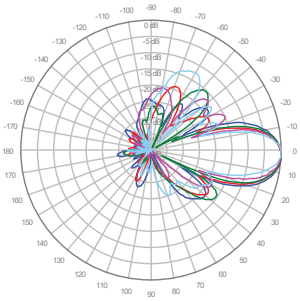
Elevation

Y4, 4° TILT

+45°

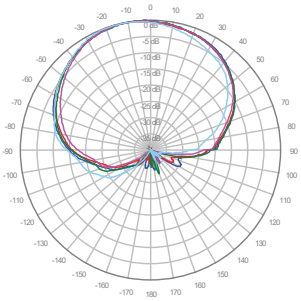


Azimuth

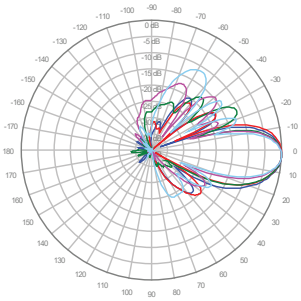


Elevation

-45°



Azimuth



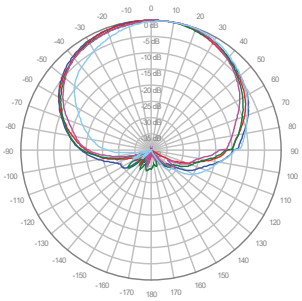
Elevation

4U4MX065X06Fxys4

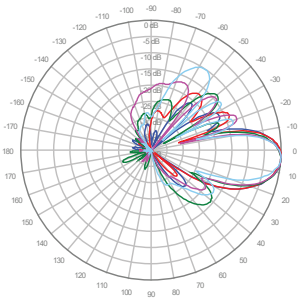
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

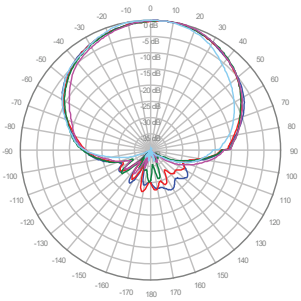


Azimuth

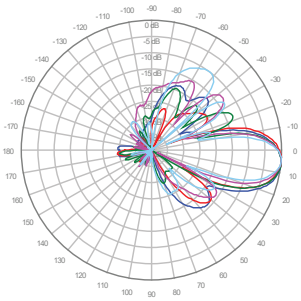


Elevation

-45°



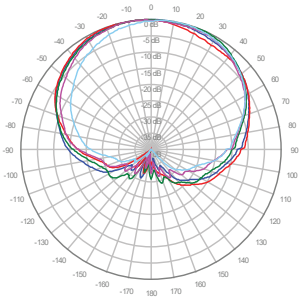
Azimuth



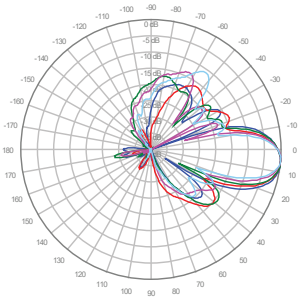
Elevation

Y2, 6° TILT

+45°

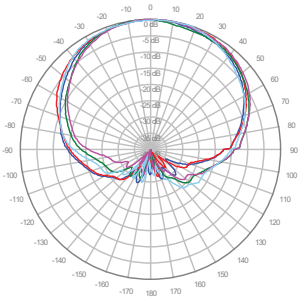


Azimuth

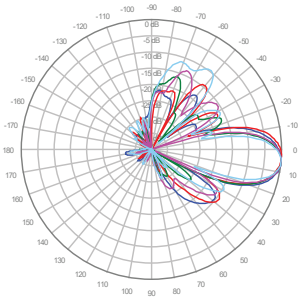


Elevation

-45°



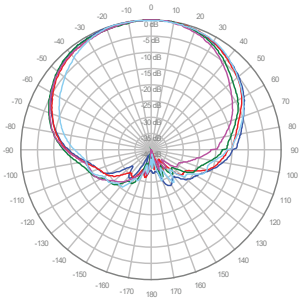
Azimuth



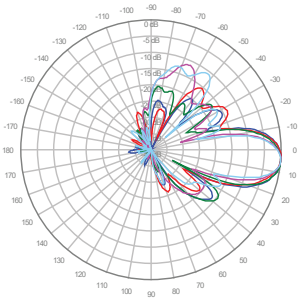
Elevation

Y3, 6° TILT

+45°

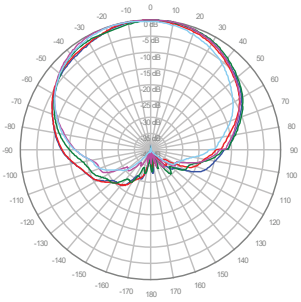


Azimuth

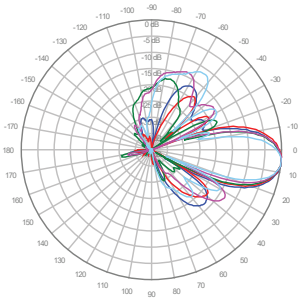


Elevation

-45°



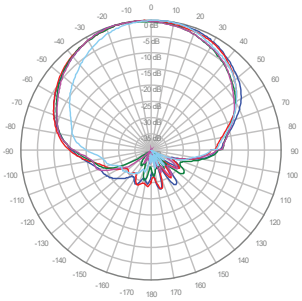
Azimuth



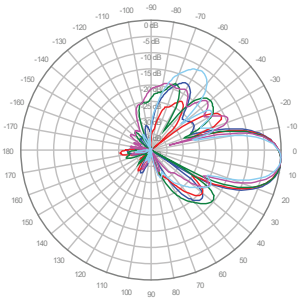
Elevation

Y4, 6° TILT

+45°

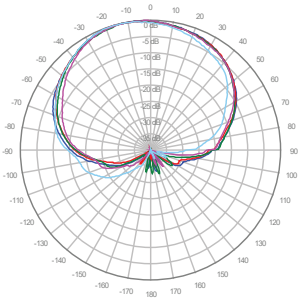


Azimuth

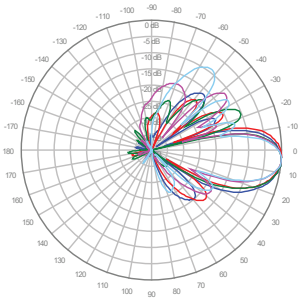


Elevation

-45°



Azimuth

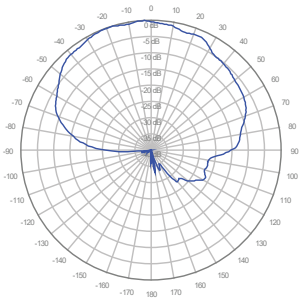


Elevation

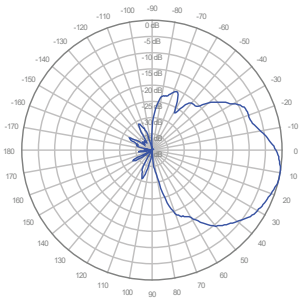
4U4MX065X06Fxys4

P1, 0° TILT

+45°

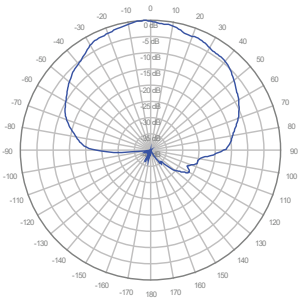


Azimuth (3600 MHz)

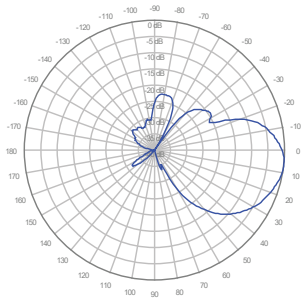


Elevation (3600 MHz)

-45°



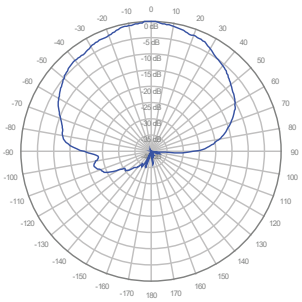
Azimuth (3600 MHz)



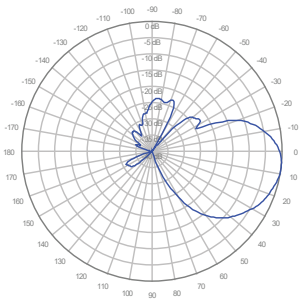
Elevation (3600 MHz)

P2, 0° TILT

+45°

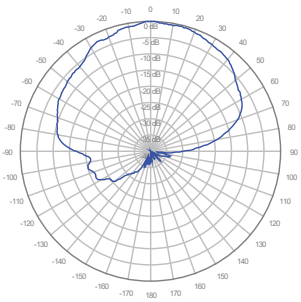


Azimuth (3600 MHz)

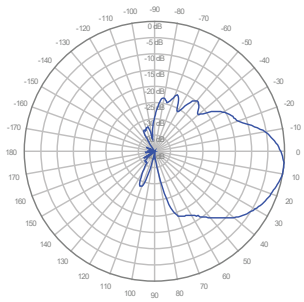


Elevation (3600 MHz)

-45°



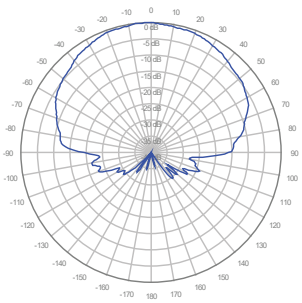
Azimuth (3600 MHz)



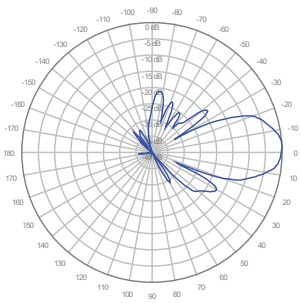
Elevation (3600 MHz)

O1, 0° TILT

+45°

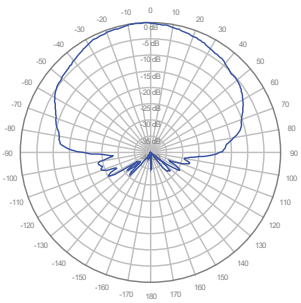


Azimuth (5600 MHz)

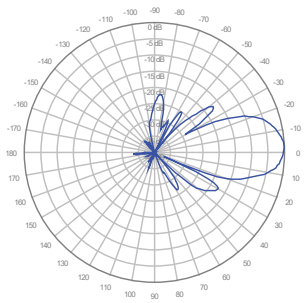


Elevation (5600 MHz)

-45°



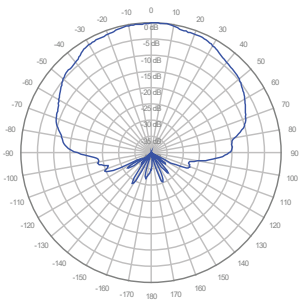
Azimuth (5600 MHz)



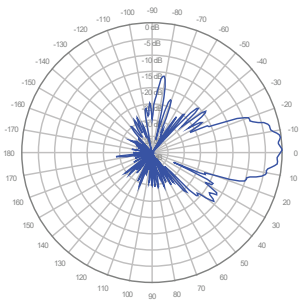
Elevation (5600 MHz)

O2, 0° TILT

+45°

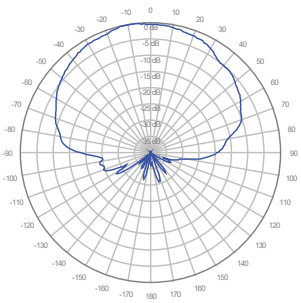


Azimuth (5600 MHz)

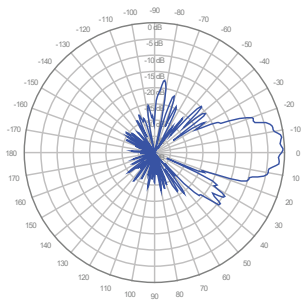


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)