65°

48.7 in

FIXED TILT

4L6U6VX065X12Fwxyc5

Features

- Unique high port count panel antenna for 4G/5G small cell applications
- 32 total connectors to service the 617-896, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or 4x4 MIMO deployments
- Fixed tilt options



Frequency Range (MHz)	(4x) 617-896	(6x) 1695-2700	(6x) 3300-4200				
Array	■ R1, ■ R2	■ Y1, ■ Y2, ■ Y3	■ P1, ■ P2, ■ P3				
Array	R3, R4	■ Y4, ■ Y5, ■ Y6	■ P4, ■ P5, ■ P6				
Connector Polarization Azimuth Beamwidth (avg)	8 PORTS	12 PORTS	12 PORTS				
Polarization	XPOL	XPOL	XPOL				
Azimuth Beamwidth (avg)	65°	65°	65°				
Electrical Downtilt	0°	2°, 4°, 6°	2°, 4°, 6°				
Maximum Continuous Power Per Port @ 50° C (122° F)	200 WATTS	100 WATTS	100 WATTS				
Maximum Total Continuous Power at 50° C (122° F)	4000 WATTS						
Total Connector Count	32 PORTS						
Connector Type	4.310 FEMALE	2.2-5 FEMALE 2.2-5 FEMALE					
Dimensions	1238 x 521 x 211 mm (48.7 x 20.5 x 8.3)						
Radome Color Options	GREY						

ELECTRICAL SPECIFICATIONS

ECIFICATIONS		■ KI ■	R2 ■ R3 ■ R4				
	MHz	(4x) 617-896					
nge	MHz	617-806 806-896					
		(4x) ±45°					
BASTA	dBi	8.7 ± 0.9	8.1 ± 0.7				
MAX	dBi	9.6	8.8				
Azimuth Beamwidth (3 dB)		73.7° ± 7.6°	80.6° ± 8.4°				
levation Beamwidth (3 dB) degr		73.7° ± 19.1° 67.6° ± 16.7°					
	degrees	(w) 0°					
	Ohms		50Ω				
VSWR			1.5:1				
ation W Carriers	dBc	< -153					
ppression	dB	N/A					
Isolation Intraband			> 25				
Interband	dB	> 28 same band; > 30 different bands					
	BASTA MAX h (3 dB) dth (3 dB) ation W Carriers ppression Intraband	MHz nge MHz BASTA dBi MAX dBi MAX dBi h (3 dB) degrees degrees Ohms ation W Carriers ppression dB Intraband dB	MHz dege MHz 617-806 BASTA dBi 8.7 ± 0.9 MAX dBi 9.6 13.7° ± 7.6° dth (3 dB) degrees 73.7° ± 19.1° degrees Ohms ation W Carriers ppression dB Intraband dB				

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ELECTRICAL	SPECIFICATIONS	;		Y1 Y2 Y3	Y4 Y5 Y	76			
Frequency Rang	ge	MHz		(6x) 1695-2700					
Frequency Sub-Range		MHz	1695-1880 1850-1990		1920-2200	2300-2700			
Polarization				(6x)	±45°				
Carr	BASTA	dBi	11.6 ± 1.0	11.9 ± 0.9	11.9 ± 1.1	12.6 ± 1.2			
Gain	MAX	dBi	12.6	12.8	13.0	13.8			
Azimuth Beamwidth (3 dB)		degrees	69.2° ± 8.2°	67.5° ± 7.8°	67.1° ± 7.7°	67.5° ± 12.0°			
Elevation Beamwidth (3 dB)		degrees	26.3° ± 3.0°	23.9° ± 2.1°	22.8° ± 2.9°	19.0° ± 2.4°			
Electrical Down	tilt	degrees		(x) 2°,	, 4°, 6°				
Impedance		Ohms	50Ω						
VSWR				1	5:1				
Passive Intermo 3rd Order for 2x		dBc	< -153						
Upper Sidelobe Suppression dB		dB	N/A						
In alastin a	Intraband	dB	> 25						
Isolation	Interband	dB	> 28 same band; > 30 different bands						

ELECTRICAL SPECIFICATIONS P1 P2 P3 P4 P5 P6								
Frequency Ran	ge	MHz	(6x) 3300-4200					
Frequency Sub-Range M		MHz	3300-3550	3550-3700	3700-4200			
Polarization				(6x) ±45°				
Cath	BASTA	dBi	13.1 ± 0.8	13.6 ± 1.0	14.6 ± 0.8			
Gain	MAX	dBi	13.9	14.6	15.4			
Azimuth Beamwidth (3 dB)		degrees	67.7° ± 10.0° 68.6° ± 12.0°		71.9° ± 11.9°			
Elevation Beamwidth (3 dB) degrees			14.4° ± 1.1°	13.0° ± 1.3°	12.5° ± 1.1°			
Electrical Dowr	ntilt	degrees		(y) 2°, 4°, 6°				
Impedance	npedance Ohms			50Ω				
VSWR				1.5:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers dBc		dBc	< -153					
Upper Sidelobe Suppression dB			N/A					
Isolation Interband		dB	> 25					
		dB	> 28 same band; > 30 different bands					



65°

48.7 in

FIXED TILT

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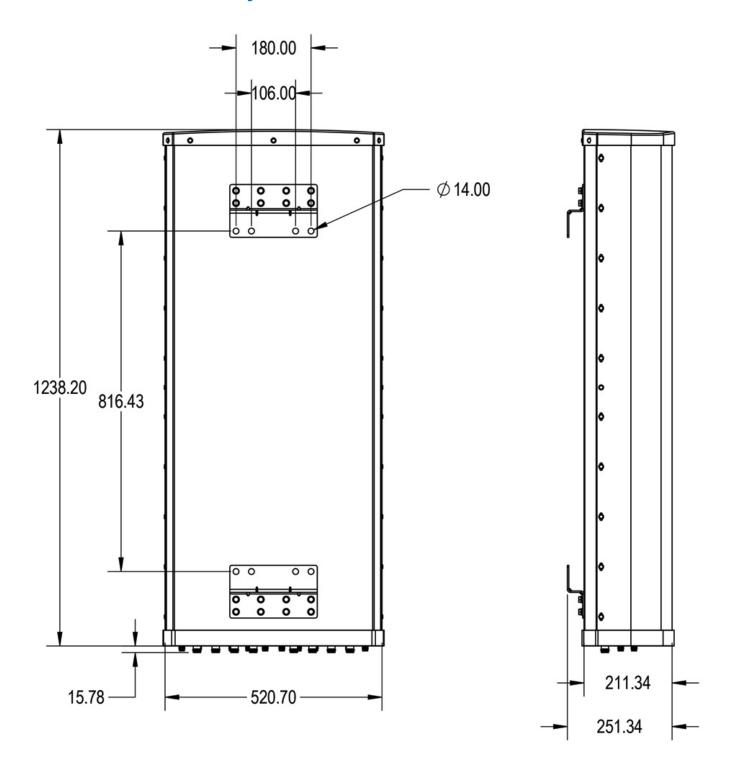
MECHANICAL SPECIFICATIONS

g	Length		mm (in)	1238 (48.7)
Antenna	Width		mm (in)	521 (20.5)
₹	Depth		mm (in)	211 (8.3)
Net W	/eight - Antenna Only	,	kg (lbs)	18 (39)
		Calculation	km/h (mph)	160 (100)
Windle	Windload Frontal Side		N (lbf)	480 (108)
			N (lbf)	285 (64)
Surviv	Survival Wind Speed		km/h (mph)	241 (150)
	Туре			4.3-10 Female (low band) and 2.2-5 Female (mid and high bands)
Conne	ector	Quantity		32
		Position		Bottom
Radome Color			Grey	
Operating Temperature		degrees	-40 to +60 C (-40 to +140 F)	
Lightn	ing Protection (Grour	nding Type)		Direct Ground



65°

48.7 in FIXED TILT



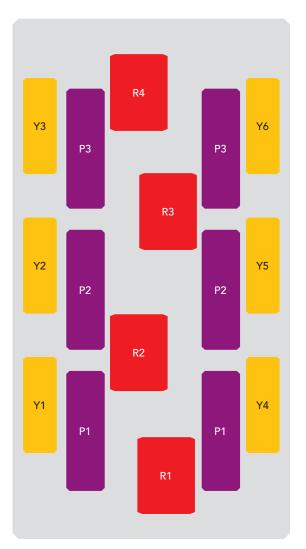


65°

48.7 in FIXED TILT

ARRAY	LAYOUT	Topology
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ARRAY LAYOUT Topology							
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE				
617-896 MHz	■ R1	1-2	(2x) 4.3-10 Female				
617-896 MHz	■ R2	3-4	(2x) 4.3-10 Female				
617-896 MHz	■ R3	5-6	(2x) 4.3-10 Female				
617-896 MHz	■ R4	7-8	(2x) 4.3-10 Female				
1695-2700 MHz	■ Y1	9-10	(2x) 2.2-5 Female				
1695-2700 MHz	■ Y2	11-12	(2x) 2.2-5 Female				
1695-2700 MHz	■ Y3	13-14	(2x) 2.2-5 Female				
1695-2700 MHz	■ Y4	15-16	(2x) 2.2-5 Female				
1695-2700 MHz	<u>Y</u> 5	17-18	(2x) 2.2-5 Female				
1695-2700 MHz	■ Y6	19-20	(2x) 2.2-5 Female				
3300-4200 MHz	■ P1	21-22	(2x) 2.2-5 Female				
3300-4200 MHz	■ P2	23-24	(2x) 2.2-5 Female				
3300-4200 MHz	■ P3	25-26	(2x) 2.2-5 Female				
3300-4200 MHz	■ P4	27-28	(2x) 2.2-5 Female				
3300-4200 MHz	■ P5	29-30	(2x) 2.2-5 Female				
3300-4200 MHz	■ P6	31-32	(2x) 2.2-5 Female				



The illustration is not shown to scale.



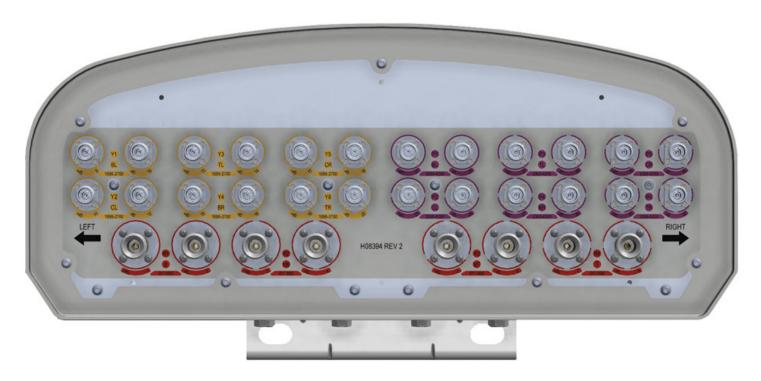
65°

48.7 in

FIXED TILT

4L6U6VX065X12Fwxyc5

BOTTOM VIEW - LABELING



MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS10P01	2-POINT MOUNTING BRACKET KIT	50-115 mm (2.0-4.5 in)	4.8 kg (10.6 lbs)
MKS10T01	2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT	50-115 mm (2.0-4.5 in)	7.2 kg (15.8 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.



65°

48.7 in

FIXED TILT

4L6U6VX065X12Fwxyc5

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

	ER OF BAN TING FREQ		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
4L	6U	6V	×	065	×	12	F	wxy	С	5	-P -T
(4x) 617- 896	(6x) 1695- 2700	(6x) 3300- 4200	Standard Panel Antenna	65°	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	This antenna features a combination of 4.3-10 connectors (low band) and 2.2-5 connectors (mid and high bands)	5th generation enhanced mechanical package	To order the antenna and mounting kit together as one line item, add a -P for the 2-POINT MOUNTING BRACKET KIT (MKS10P01) or a -T for the 2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT (MKS10T01) to the end of the model number. If -P or -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket. Refer to the ordering options on the following page for further detail.

65°

48.7 in

FIXED TILT

4L6U6VX065X12Fwxyc5

ORDERING OPTIONS Select from the following ordering options

SELECT MOLINITING KIT	SELECT DEGRE	E OF ELECTRICAL DOWNTILT F	FOR EACH BAND	ORDER	
SELECT MOUNTING KIT	617-896 MHz	1695-2700 MHz	3300-4200 MHz	MODEL NUMBER	
ANTENNA ONLY -	0°	2°	2°	4L6U6VX065X12F022c5	
NO MOUNTING KIT	0°	4°	4°	4L6U6VX065X12F044c5	
	0°	6°	6°	4L6U6VX065X12F066c5	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	2°	4L6U6VX065X12F0A2c5	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	2°	4L6U6VX065X12F0B2c5	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	2°	4L6U6VX065X12F0C2c5	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	4°	4L6U6VX065X12F0A4c5	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	4°	4L6U6VX065X12F0B4c5	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	4°	4L6U6VX065X12F0C4c5	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	6°	4L6U6VX065X12F0A6c5	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	6°	4L6U6VX065X12F0B6c5	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	6°	4L6U6VX065X12F0C6c5	
ANTENNA WITH MKS10P01	0°	2°	2°	4L6U6VX065X12F022c5-P	
MOUNTING KIT	0°	4°	4°	4L6U6VX065X12F044c5-P	
2-Point Mounting Bracket Kit	0°	6°	6°	4L6U6VX065X12F066c5-P	
2 Tome Woulding Bracket Ric	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	2°	4L6U6VX065X12F0A2c5-P	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	2°	4L6U6VX065X12F0B2c5-P	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	2°	4L6U6VX065X12F0C2c5-P	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	4°	4L6U6VX065X12F0A4c5-P	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	4°	4L6U6VX065X12F0B4c5-P	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	4°	4L6U6VX065X12F0C4c5-P	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	6°	4L6U6VX065X12F0A6c5-P	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	6°	4L6U6VX065X12F0B6c5-P	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	6°	4L6U6VX065X12F0C6c5-P	
ANTENNA WITH MKS10T01	0°	2°	2°	4L6U6VX065X12F022c5-T	
MOUNTING KIT	0°	4°	4°	4L6U6VX065X12F044c5-T	
2-Point, Scissor Tilt, Mounting	0°	6°	6°	4L6U6VX065X12F066c5-T	
& Downtilt Bracket Kit	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	2°	4L6U6VX065X12F0A2c5-T	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	2°	4L6U6VX065X12F0B2c5-T	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	2°	4L6U6VX065X12F0C2c5-T	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	4°	4L6U6VX065X12F0A4c5-T	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	4°	4L6U6VX065X12F0B4c5-T	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	4°	4L6U6VX065X12F0C4c5-T	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	6°	4L6U6VX065X12F0A6c5-T	
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	6°	4L6U6VX065X12F0B6c5-T	
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	6°	4L6U6VX065X12F0C6c5-T	

750 MHz

850 MHz



(4x) 617-896 | (6x) 1695-2700 | (6x) 3300-4200 MHz

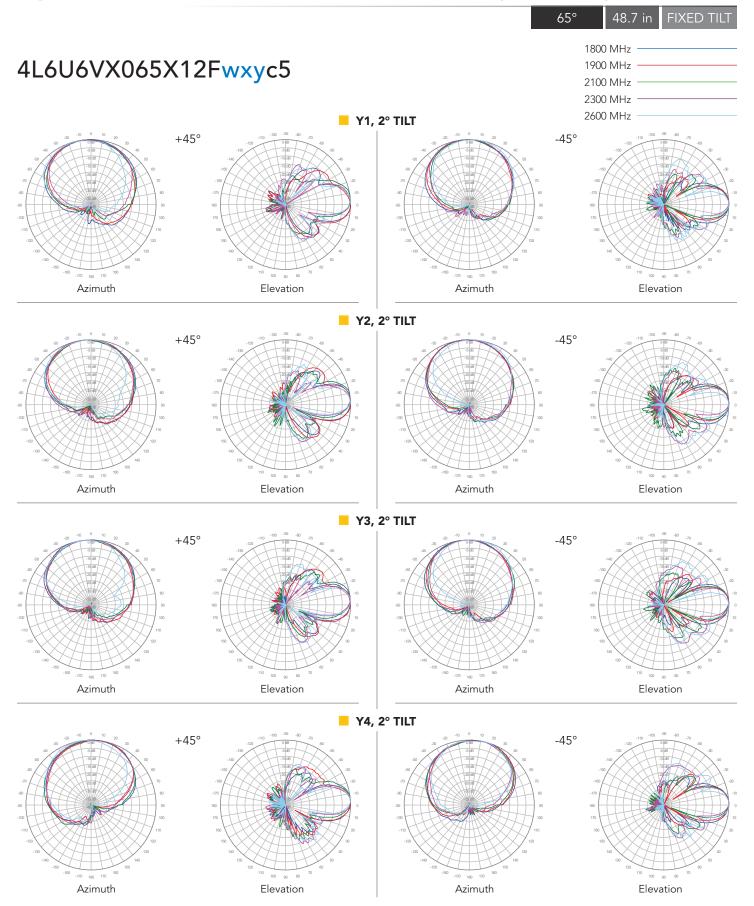
65°

48.7 in

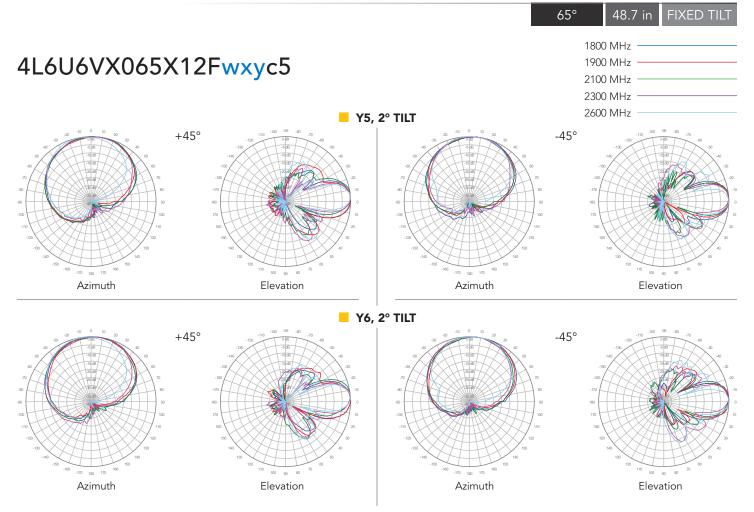
FIXED TILT

4L6U6VX065X12Fwxyc5

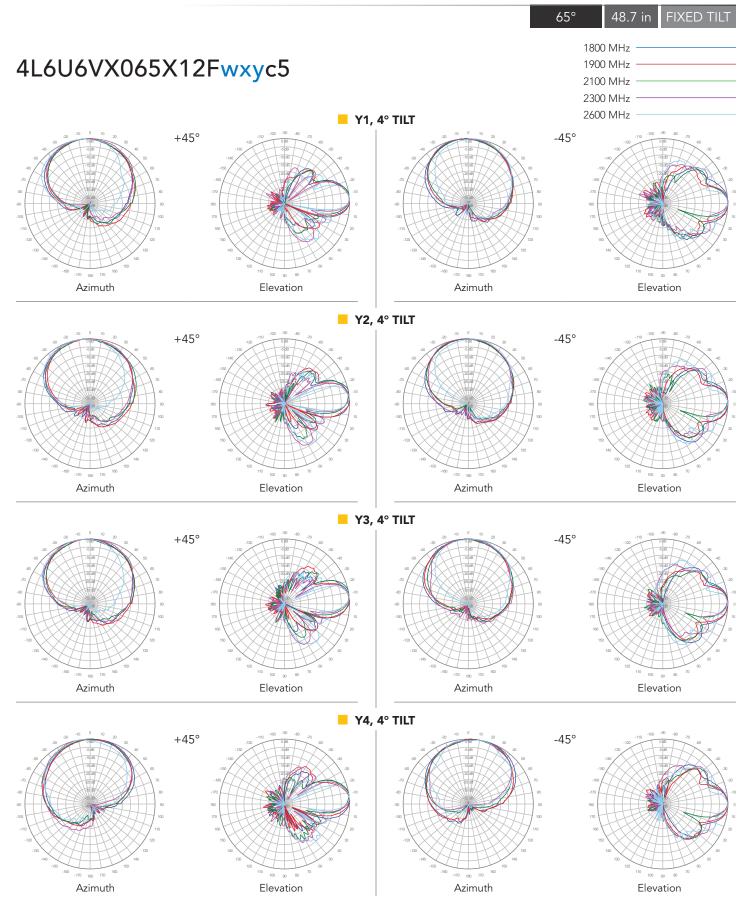


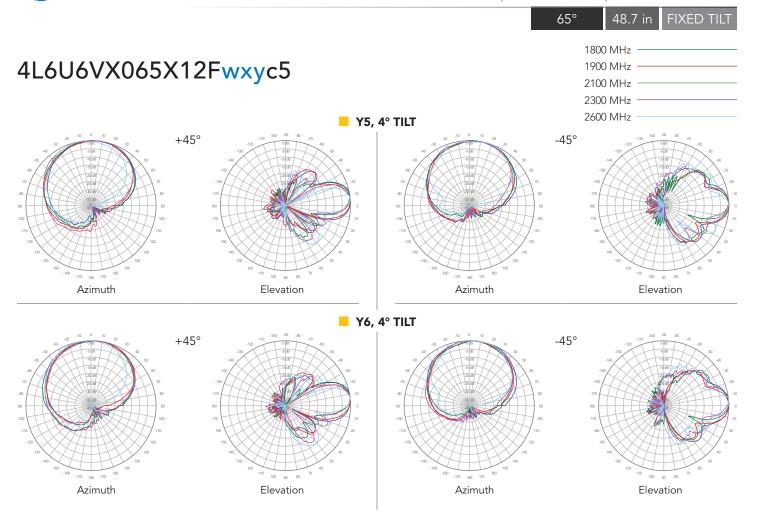


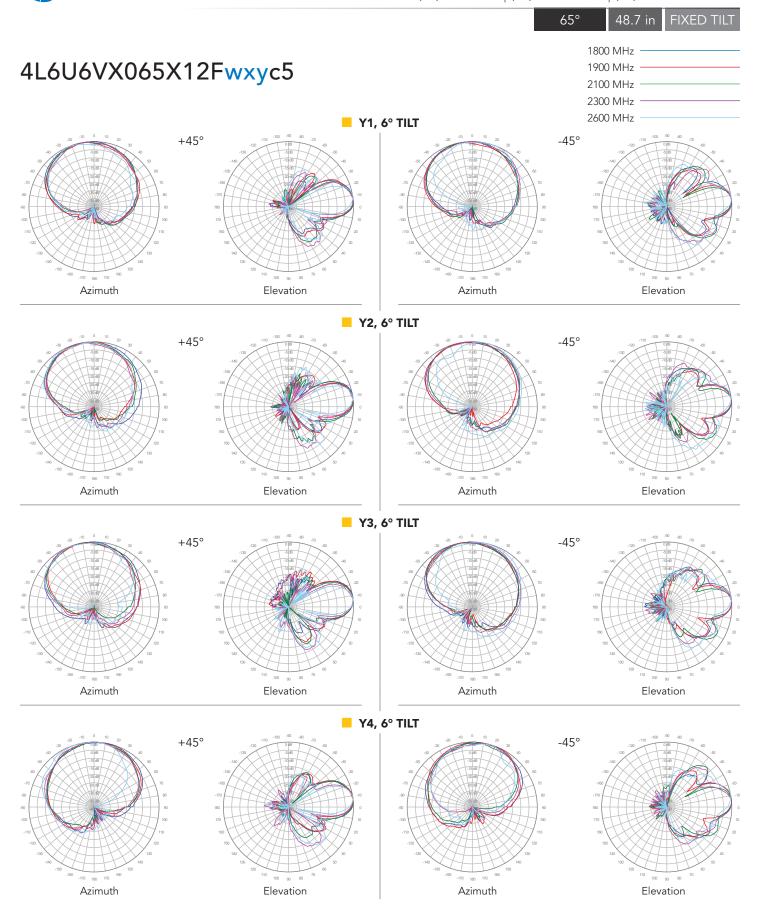


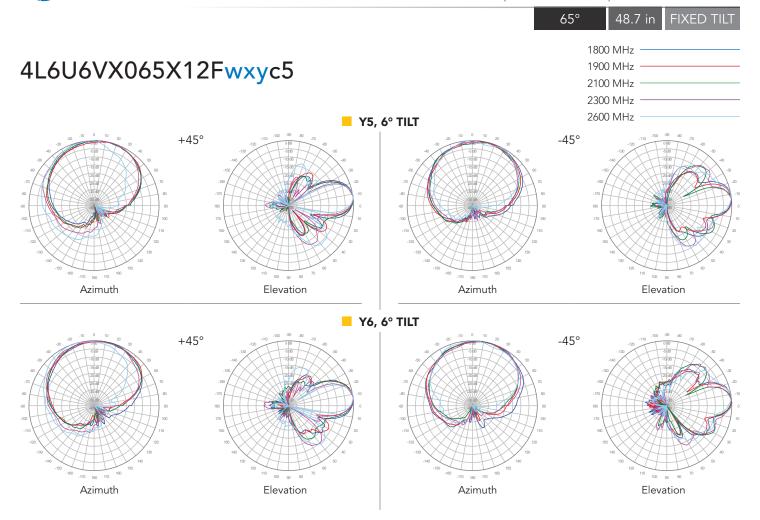












3600 MHz

4000 MHz



(4x) 617-896 | (6x) 1695-2700 | (6x) 3300-4200 MHz

65°

48.7 in

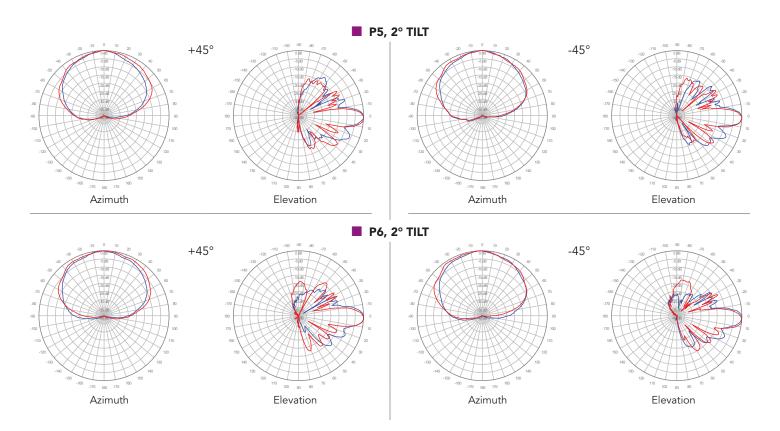
FIXED TILT

4L6U6VX065X12Fwxyc5





65° 48.7 in FIXED TILT



3600 MHz

4000 MHz



(4x) 617-896 | (6x) 1695-2700 | (6x) 3300-4200 MHz

65°

48.7 in

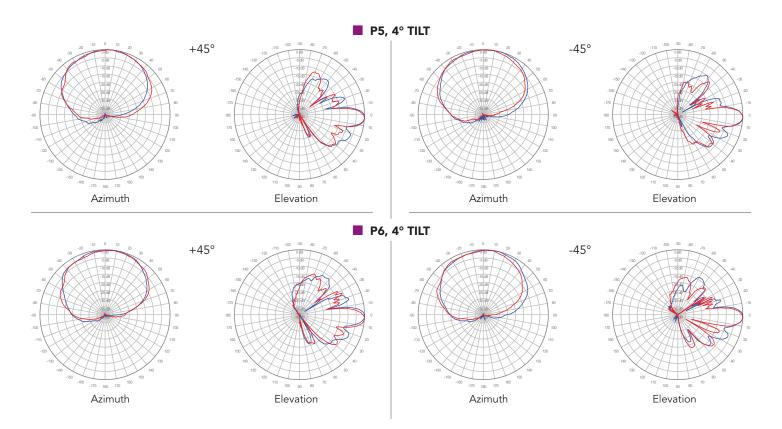
FIXED TILT

4L6U6VX065X12Fwxyc5





65° 48.7 in FIXED TILT



3600 MHz

4000 MHz



(4x) 617-896 | (6x) 1695-2700 | (6x) 3300-4200 MHz

65°

48.7 in

FIXED TILT

4L6U6VX065X12Fwxyc5





65° 48.7 in FIXED TILT

