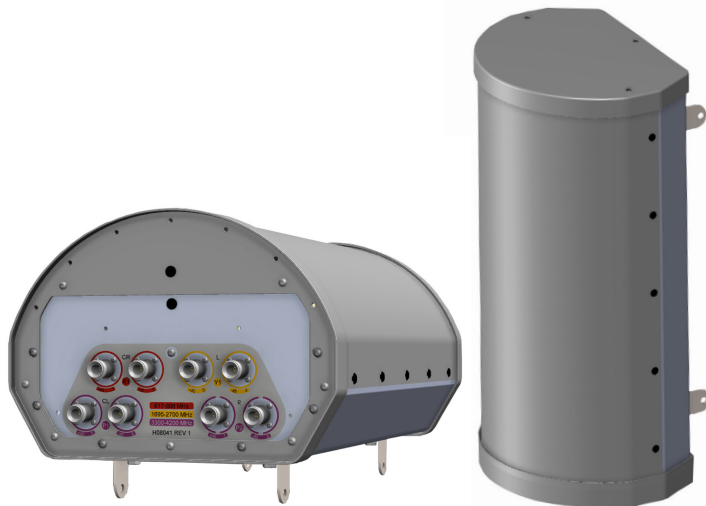


## LU2VX65X2Fwxy

### Features

- Unique panel antenna for 4G/5G small cell applications
- 8 total connectors to service the 617-906, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or private network deployments
- Fixed tilt options



PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 617-906	(1x) 1695-2700	(2x) 3300-4200
	Array	<span style="color: red;">■</span> R1	<span style="color: yellow;">■</span> Y1	<span style="color: purple;">■</span> P1, <span style="color: purple;">■</span> P2
	Connector	2 PORTS	2 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°	65°
	Electrical Downtilt	0°	0°, 6°	0°, 6°
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	2000 WATTS		
	Total Connector Count	8 PORTS		
	Connector Type	4.3.-10 FEMALE		
Dimensions		635 x 356 x 246 mm (25.0 x 14.0 x 9.7)		
Radome Color Options		GREY		

### ELECTRICAL SPECIFICATIONS

#### ■ R1

Frequency Range		MHz	(1x) 617-906	
Frequency Sub-Range		MHz	617-806	806-906
Polarization		---	(1x) ±45°	
Gain	BASTA	dBi	10.7 ± 0.6	10.2 ± 0.9
	MAX	dBi	11.3	11.1
Azimuth Beamwidth (3 dB)		degrees	83.4° ± 5.8°	80.9° ± 6.3°
Elevation Beamwidth (3 dB)		degrees	37.8° ± 4.9°	31.4° ± 2.9°
Electrical Downtilt		degrees	(w) 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	> 23	
	Interband	dB	> 28 same band; > 30 different bands	

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.

## LU2VX65X2Fwxy

### ELECTRICAL SPECIFICATIONS

Y1

Frequency Range		MHz	(1x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(1x) $\pm 45^\circ$			
Gain	BASTA	dBi	$13.0 \pm 0.5$	$13.7 \pm 0.4$	$13.5 \pm 0.6$	$14.5 \pm 0.6$
	MAX	dBi	13.5	14.1	14.1	15.1
Azimuth Beamwidth (3 dB)		degrees	$78.5^\circ \pm 4.7^\circ$	$73.7^\circ \pm 6.2^\circ$	$69.3^\circ \pm 7.6^\circ$	$62.2^\circ \pm 8.9^\circ$
Elevation Beamwidth (3 dB)		degrees	$20.8^\circ \pm 1.8^\circ$	$19.6^\circ \pm 1.4^\circ$	$18.0^\circ \pm 2.3^\circ$	$14.9^\circ \pm 1.5^\circ$
Electrical Downtilt		degrees	(x) $0^\circ, 6^\circ$			
Impedance		Ohms	50 $\Omega$			
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 same band; > 30 different bands			

### 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	$13.8 \pm 0.7$	$14.2 \pm 0.4$	$15.0 \pm 0.7$
	MAX	dBi	14.5	14.6	15.7
Azimuth Beamwidth (3 dB)		degrees	$65.0^\circ \pm 4.9^\circ$	$66.2^\circ \pm 4.1^\circ$	$69.7^\circ \pm 7.4^\circ$
Elevation Beamwidth (3 dB)		degrees	$17.6^\circ \pm 1.1^\circ$	$16.8^\circ \pm 1.2^\circ$	$15.3^\circ \pm 1.7^\circ$
Electrical Downtilt		degrees	(y) $0^\circ, 6^\circ$		
Impedance		Ohms	50 $\Omega$		
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 bands		

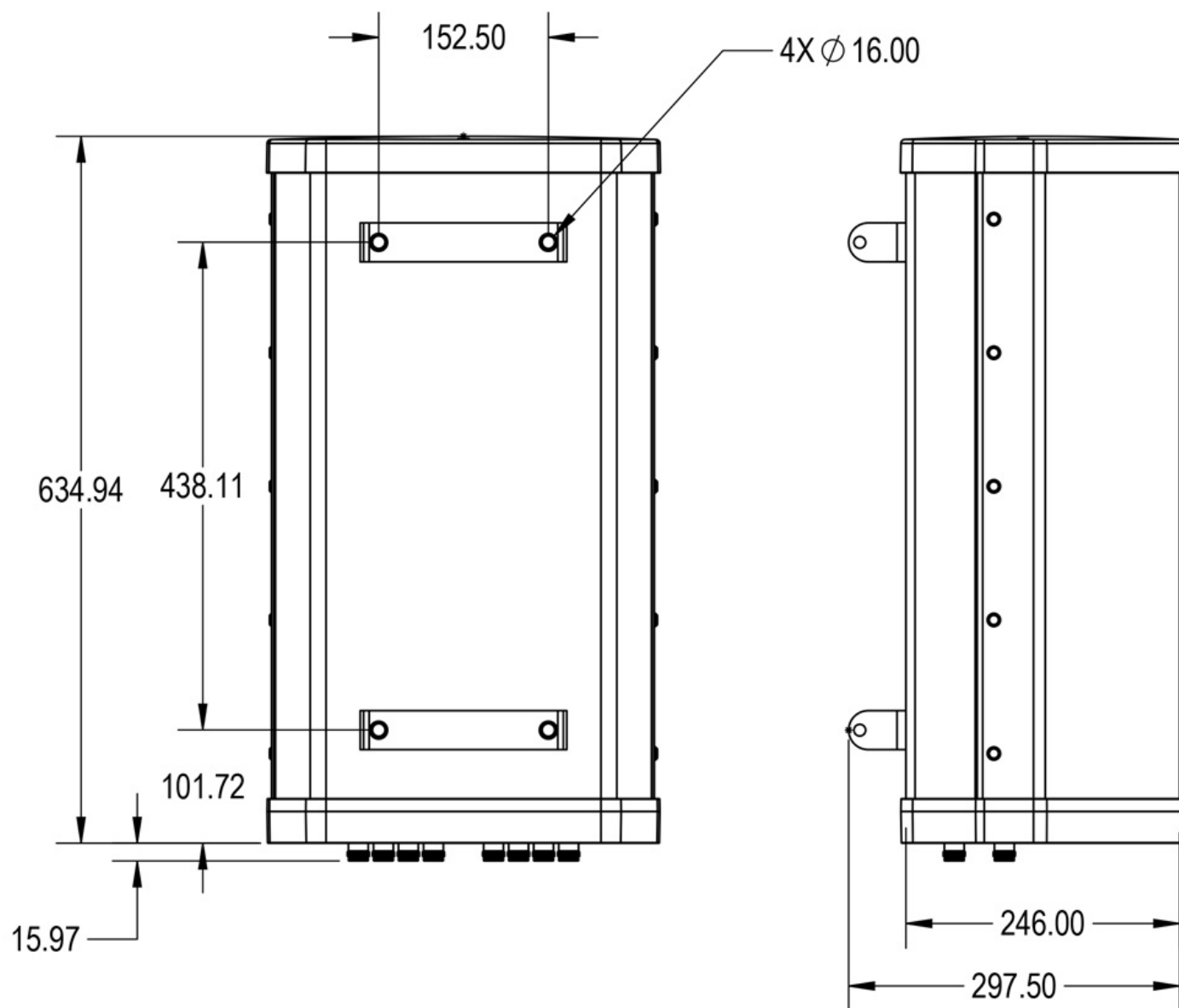
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

## LU2VX65X2Fwxy

### MECHANICAL SPECIFICATIONS

Antenna	Length	mm (in)	635 (25.0)
	Width	mm (in)	356 (14.0)
	Depth	mm (in)	246 (9.7)
Net Weight - Antenna Only		kg (lbs)	5.4 (12)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	262 (59)
	Side	N (lbf)	107 (24)
Survival Wind Speed		km/h (mph)	241 (150)
Connector	Type	---	4.3-10 Female
	Quantity	---	8
	Position	---	Bottom
Radome Color		---	Grey
Operating Temperature		degrees	-40 to +60 C (-40 to +140 F)
Lightning Protection (Grounding Type)		---	Direct Ground

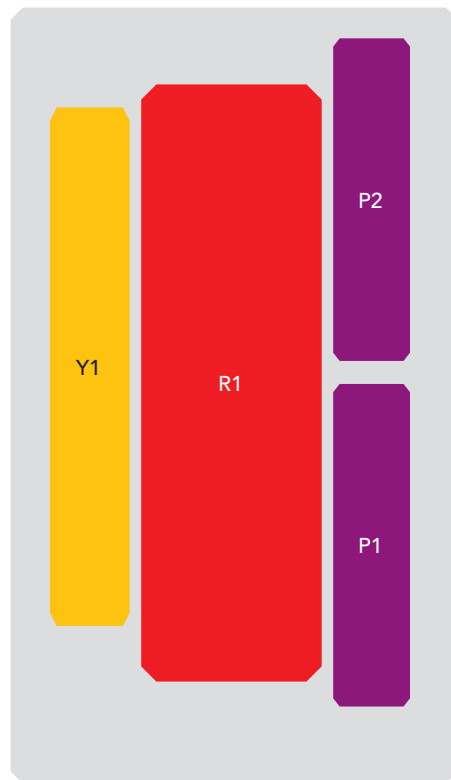
## LU2VX65X2Fwxy



## LU2VX65X2Fwxy

### ARRAY LAYOUT Topology

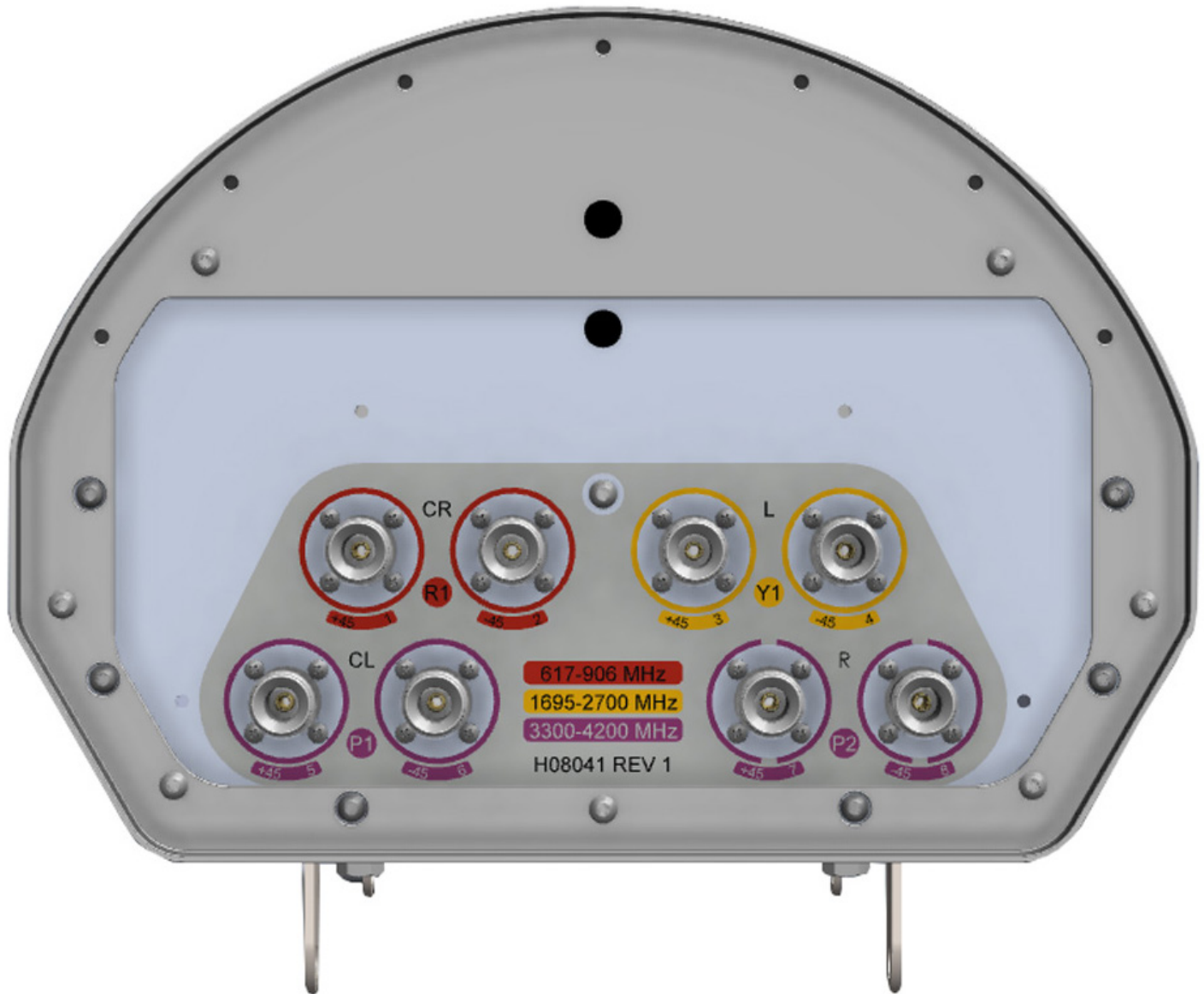
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906 MHz	<span style="color: red;">■</span> R1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y1	3-4	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P1	5-6	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P2	7-8	(2x) 4.3-10 Female



*The illustration is not shown to scale.*

## LU2VX65X2Fwxy

### BOTTOM VIEW - LABELING



### 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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## LU2VX65X2Fwxy

### MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS09P01	2-POINT MOUNTING BRACKET KIT	50-115 mm (2.0-4.5 in)	2.9 kg (6 lbs)
MKS09T01	2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT	50-115 mm (2.0-4.5 in)	4.5 kg (10 lbs)



The antennas shown in the mounting kit illustrations above are generic representations and may not resemble the antenna described within this data sheet.

## LU2VX65X2Fwxy

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

NUMBER OF BANDS and OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BEAMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	ORDERING OPTION
L	U	2V	X	65	X	2	F	wxy	-P -T
(1x) 617-906	(1x) 1695-2700	(2x) 3300-4200	Standard Panel Antenna	65°	XPOL	2 Feet	Fixed Tilt	<p>These letters are placeholders for fixed tilt options.</p> <p>Refer to Electrical Specifications for available tilt options.</p>	<p>To order the antenna and mounting kit together as one line item, add a -P for the 2-POINT MOUNTING BRACKET KIT (MKS09P01) or a -T for the 2-POINT, SCISSOR TILT, MOUNTING &amp; DOWNTILT BRACKET KIT (MKS09T01) to the end of the model number.</p> <p>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.</p> <p>Refer to the ordering options on the following page for further detail.</p>



## LU2VX65X2Fwxy

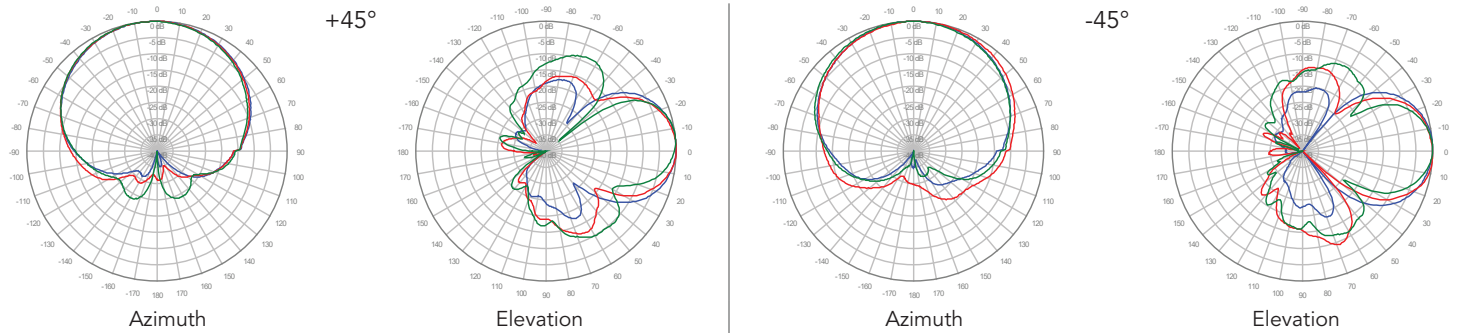
### ORDERING OPTIONS Select from the following ordering options

SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	617-906 MHz	1695-2700 MHz	3300-4200 MHz	
ANTENNA ONLY - NO MOUNTING KIT	0°	0°	0°	LU2VX65X2F000
	0°	0°	6°	LU2VX65X2F006
	0°	6°	0°	LU2VX65X2F060
	0°	6°	6°	LU2VX65X2F066
ANTENNA WITH <b>MKS09P01</b> MOUNTING KIT  2-Point Mounting Bracket Kit	0°	0°	0°	LU2VX65X2F000-P
	0°	0°	6°	LU2VX65X2F006-P
	0°	6°	0°	LU2VX65X2F060-P
	0°	6°	6°	LU2VX65X2F066-P
ANTENNA WITH <b>MKS09T01</b> MOUNTING KIT  2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	0°	0°	0°	LU2VX65X2F000-T
	0°	0°	6°	LU2VX65X2F006-T
	0°	6°	0°	LU2VX65X2F060-T
	0°	6°	6°	LU2VX65X2F066-T

LU2VX65X2Fwxy

650 MHz ———  
750 MHz ———  
850 MHz ———

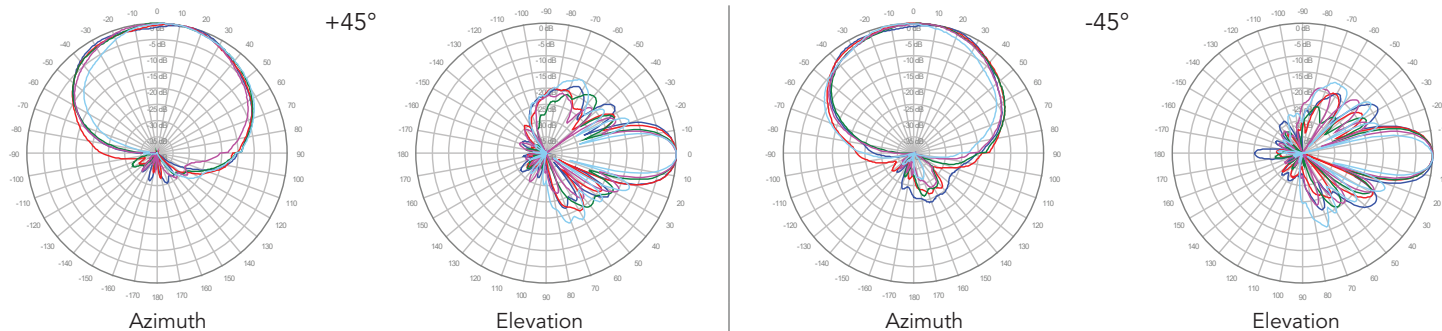
■ R1, 0° TILT



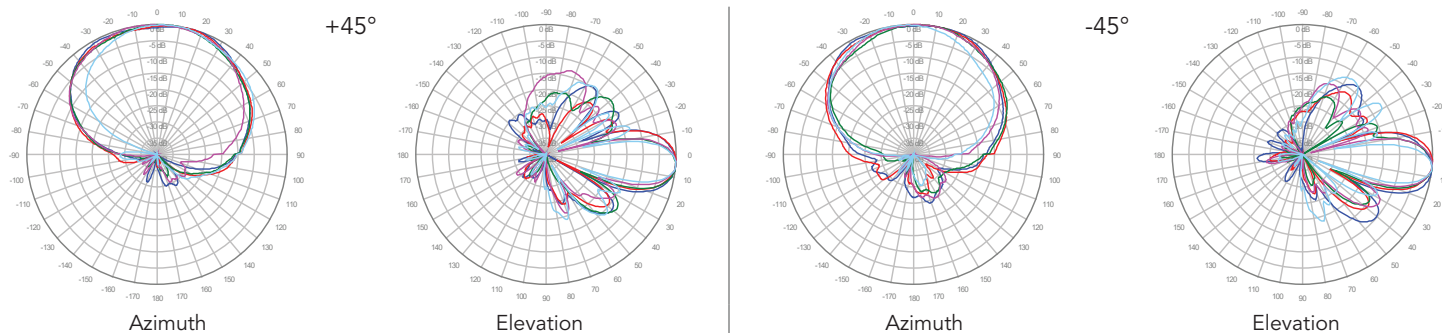
LU2VX65X2Fwxy

1800 MHz —  
1900 MHz —  
2100 MHz —  
2300 MHz —  
2600 MHz —

■ Y1, 0° TILT

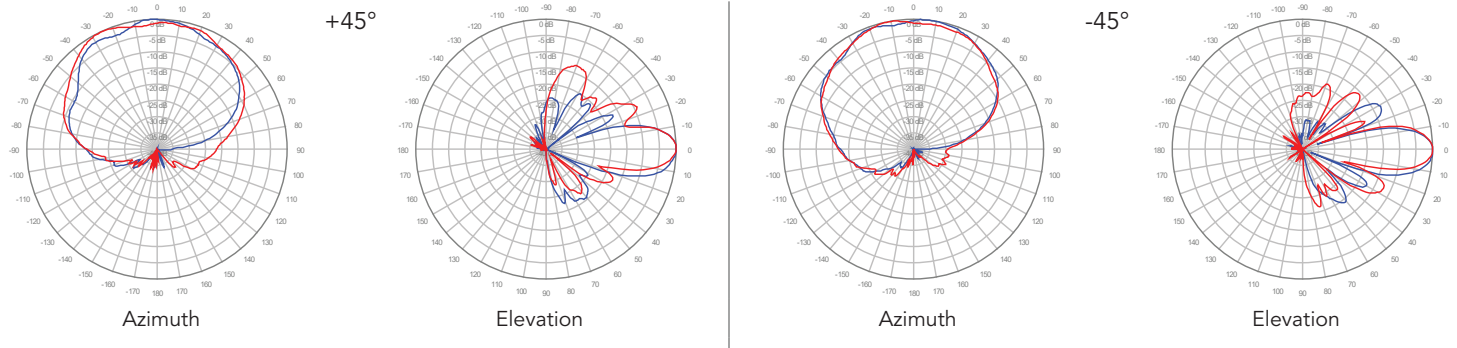


■ Y1, 6° TILT

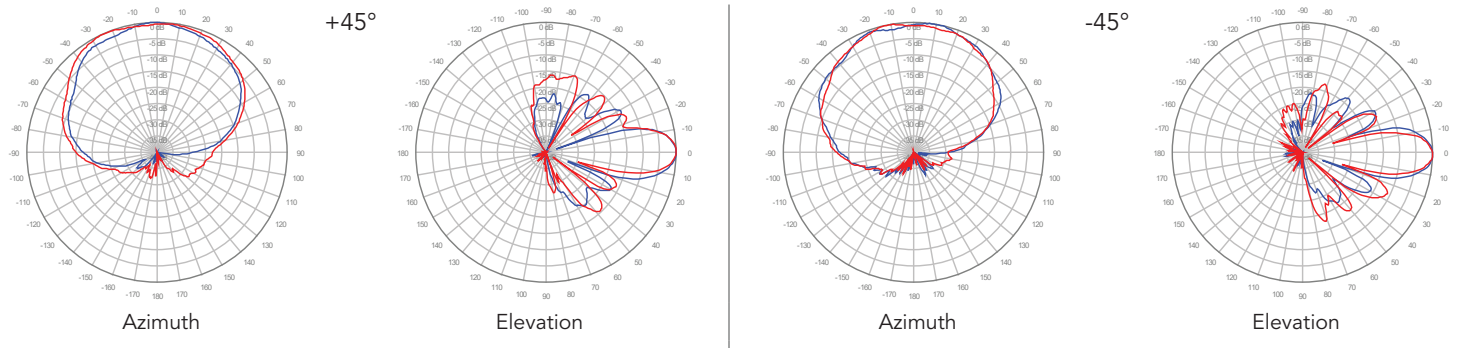


## LU2VX65X2Fwxy

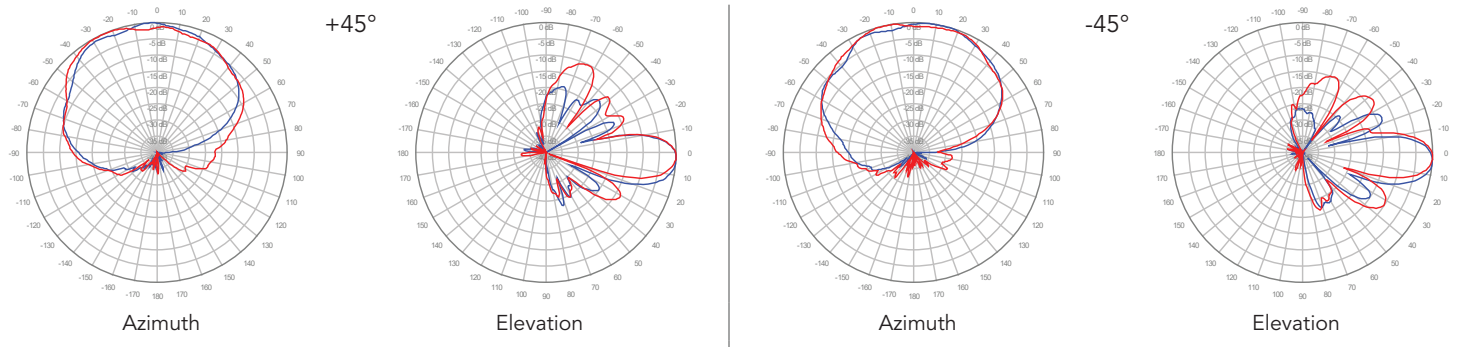
### P1, 0° TILT



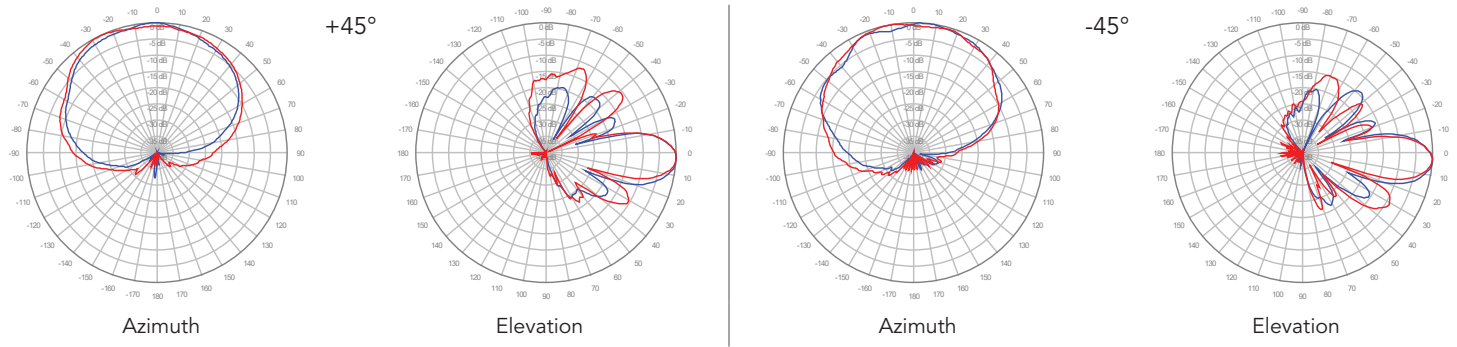
### P2, 0° TILT



### P1, 6° TILT



### P2, 6° TILT



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