

65°

25.0 in

FIXED TILT

2L4U4VX065X06Fwxys4

Features

- Unique high port count panel antenna for 4G/5G small cell applications
- 20 total connectors to service the 617-906, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or 4x4 MIMO deployments
- Fixed tilt options



Frequency Range (MHz)		(2x) 617-906	(4x) 1695-2700	(4x) 3300-4200				
Array		■ R1, ■ R2	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4				
Connect	tor	4 PORTS	8 PORTS	8 PORTS				
Polarizat	tion	XPOL	XPOL	XPOL				
Azimuth Electrica	Beamwidth (avg)	80°	72°	60°				
Electrica	al Downtilt	0°	2°, 4°, 6°	0°				
	m Continuous Power @ 50° C (122° F)	150 WATTS	125 WATTS	80 WATTS				
Maximum Total Continuous Power at 50° C (122° F)		2240 WATTS						
Power at Total Co	nnector Count	20 PORTS						
Connect	Connector Type 4.3-10 FEMALE							
Dimensi	Dimensions 635 x 344 x 246 mm (25.0 x 13.5 x 9.7 in)							
Radome	Color Options	GREY						

ELECTRICAL SPECIFICATIONS



Frequency Range		MHz	(2x) 617-906				
Frequency Sub-Range		MHz	617-806	806-906			
Polarization			(2x) ±45°				
C	BASTA	dBi	7.7 ± 0.5	7.7 ± 0.9			
Gain	MAX	dBi	8.2	8.6			
Azimuth Beamwidth (3 dB)		degrees	81.6° ± 6.6°	83.9° ± 15.7°			
Elevation Beamwidth (3 dB)		degrees	75.4° ± 12.5°	67.0° ± 22.9°			
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				
Leader Co.	Intraband	dB	>	· 25			
Isolation	Interband	dB	> 28 same band; > 30 different bands				



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> 25

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dB

dB

ELECTRI	CAL SPECIFICATIONS	;		■ Y1 ■ Y2	■ Y3 ■ Y4				
Frequency Range MHz			(4x) 1695-2700						
Frequency Sub-Range		MHz	1695-1880 1850-1990		1920-2200	2300-2700			
Polarizatio	n		(4x) ±45°						
Gain	BASTA	dBi	10.5 ± 1.2	10.6 ± 1.5	10.9 ± 1.3	11.7 ± 0.8			
	MAX	dBi	11.7	12.1	12.2	12.5			
Azimuth B	Azimuth Beamwidth (3 dB)		72.5° ± 10.6°	74.1° ± 7.9°	66.7° ± 13.3°	54.8° ± 10.3°			
Elevation E	Elevation Beamwidth (3 dB)		35.3° ± 3.7° 33.0° ± 3.9°		31.8° ± 3.6°	27.1° ± 3.6°			
Electrical D	Downtilt	degrees	(x) 2°, 4°, 6°						
Impedance		Ohms	50Ω						
VSWR			≤ 1.5:1						
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153						
Upper Side	elobe Suppression	dB	N/A						

ELECTRICAL SPECIFICATIONS

Isolation

Intraband

Interband

ELECTRICAL SPECIFICATIONS ■ P1 ■ P2 ■ P3 ■ P4								
Frequency Range		MHz	(4x) 3300-4200					
Frequency Sub-Range		MHz	3300-3550 3550-3700		3700-4200			
Polarization			(4x) ±45°					
Gain	BASTA	dBi	10.3 ± 0.7 10.9 ± 0.7		10.7 ± 0.9			
Gain	MAX	dBi	11.0	11.6	11.6			
Azimuth Bea	Azimuth Beamwidth (3 dB)		59.2° ± 12.9°	56.8° ± 17.0°	74.7° ± 18.6°			
Elevation Beamwidth (3 dB)		degrees	33.2° ± 4.4°	29.2° ± 2.9°	29.4° ± 4.7°			
Electrical Do	owntilt	degrees	(y) 0°					
Impedance		Ohms	50Ω					
VSWR			≤ 1.5:1					
	Passive Intermodulation 3rd Order for 2x20 W Carriers		-153					
Upper Sidelobe Suppression		dB	N/A					
Isolation	Intraband	dB	> 25					
	Interband	dB	> 28 same band; > 30 different bands					



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MECHANICAL SPECIFICATIONS

I			(05.05.0)	
Length		mm (in)	635 (25.0)	
Width		mm (in)	344 (13.5)	
Depth		mm (in)	246 (9.7)	
et Weight - Antenna Only kg (lbs) 8.2 (18)		8.2 (18)		
	Calculation	km/h (mph)	160 (100)	
oad	Frontal	N (lbf)	262 (59)	
	Side	N (lbf)	107 (24)	
Survival Wind Speed		km/h (mph)	241 (150)	
Wind Area		m² (ft²)	0.21 (2.3)	
	Туре		4.3-10 Female	
ector	Quantity		20	
	Position		Bottom	
Radome Color			Grey	
Operating Temperature		degrees	-40 to +60 C (-40 to +140 F)	
ning Protection (Groun	ding Type)		Direct Ground	
	Depth /eight - Antenna Only oad al Wind Speed Area ector me Color ating Temperature	Width Depth Peight - Antenna Only Calculation Frontal Side al Wind Speed Area Type Quantity Position ne Color	Width mm (in) Depth mm (in) /eight - Antenna Only kg (lbs) oad Calculation km/h (mph) Frontal N (lbf) Side N (lbf) al Wind Speed km/h (mph) Area m² (ft²) Type Quantity Position ating Temperature degrees	

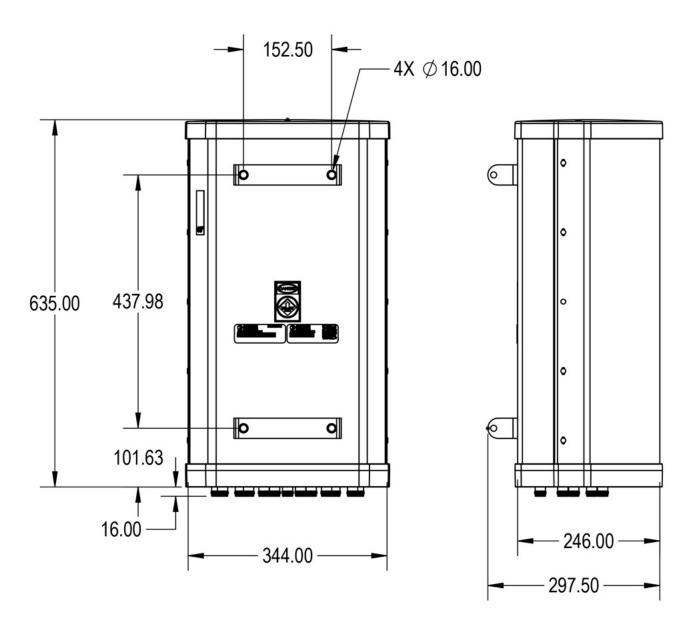


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Amphenol

ANTENNA SOLUTIONS





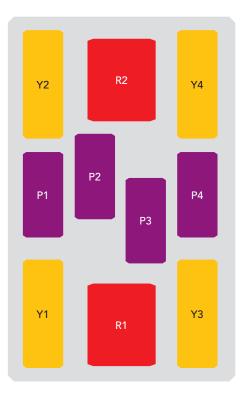
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ARRAY LAYOUT Topology

ARRAY LAYOUT Topology									
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE						
617-906 MHz	■ R1	1-2	(2x) 4.3-10 Female						
617-906 MHz	■ R2	3-4	(2x) 4.3-10 Female						
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female						
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female						
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female						
1695-2700 MHz	■ Y4	11-12	(2x) 4.3-10 Female						
3300-4200 MHz	■ P1	13-14	(2x) 4.3-10 Female						
3300-4200 MHz	■ P2	15-16	(2x) 4.3-10 Female						
3300-4200 MHz	■ P3	17-18	(2x) 4.3-10 Female						
3300-4200 MHz	■ P4	19-20	(2x) 4.3-10 Female						



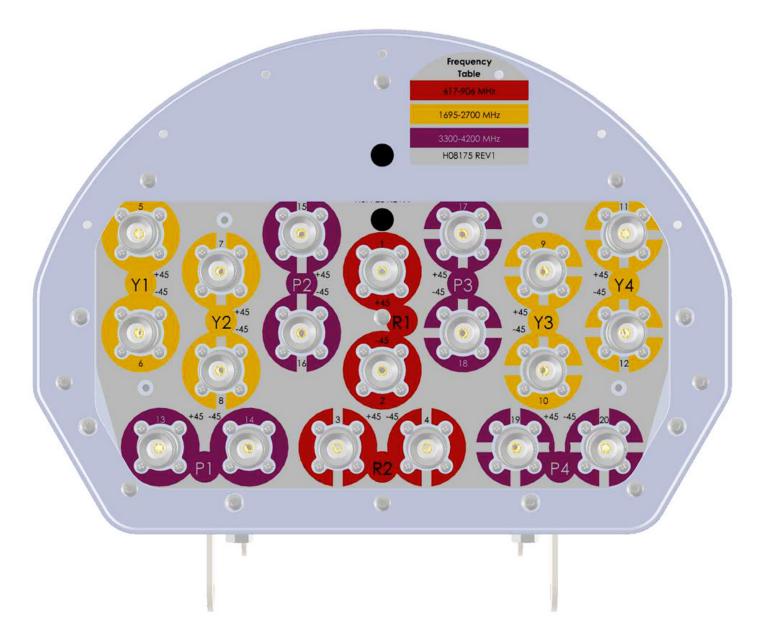
The illustration is not shown to scale.

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CONNECTOR VIEW - LABELING



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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.

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

	ER OF BAN TING FREC		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
2L	4U	4V	Х	065	Х	06	F	wxy	S	4	-P -T
(2x) 617-906	(4x) 1695- 2700	(4x) 3300- 4200	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 mechanical package	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 & DOWNTILT BRACKET KIT (MKS09T01) 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.

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$\begin{tabular}{ll} \textbf{ORDERING OPTIONS} & \textbf{Select from the following ordering options} \\ \end{tabular}$

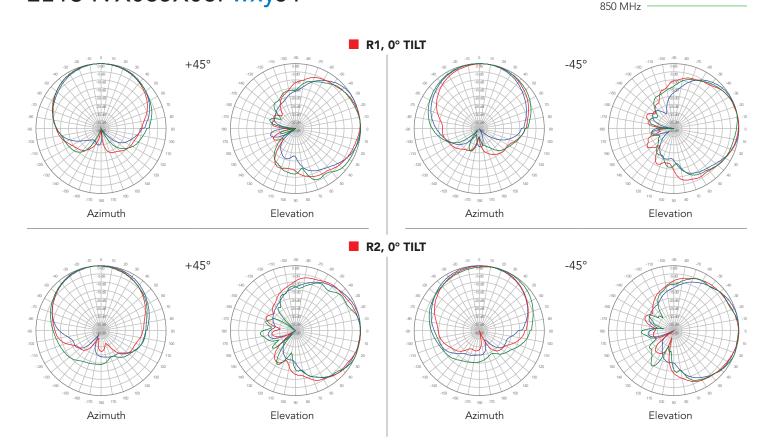
SELECT MOUNTING KIT	SELECT DEGREE	OF ELECTRICAL DOWNTILT I	ORDER	
SELECT MOUNTING KIT	617-906 MHz	1695-2700 MHz	3300-4200 MHz	MODEL NUMBER
ANTENNA ONLY -	0°	2°	0°	2L4U4VX065X06F020s4
NO MOUNTING KIT	0°	4°	0°	2L4U4VX065X06F040s4
	0°	6°	0°	2L4U4VX065X06F060s4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	2L4U4VX065X06FAAAs4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	2L4U4VX065X06FBBBs4
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	2L4U4VX065X06FCCCs4
ANTENNA WITH MKS09P01	0°	2°	0°	2L4U4VX065X06F020s4-P
MOUNTING KIT	0°	4°	0°	2L4U4VX065X06F040s4-P
2-Point Mounting Bracket Kit	0°	6°	0°	2L4U4VX065X06F060s4-P
	0°	Y1 & Y2 = 2°;Y3 & Y4 = 4°	0°	2L4U4VX065X06FAAAs4-P
	0°	Y1 & Y2 = 2°;Y3 & Y4 = 6°	0°	2L4U4VX065X06FBBBs4-P
	0°	Y1 & Y2 = 4°;Y3 & Y4 = 6°	0°	2L4U4VX065X06FCCCs4-P
ANTENNA WITH MKS09T01	0°	2°	0°	2L4U4VX065X06F020s4-T
MOUNTING KIT	0°	4°	0°	2L4U4VX065X06F040s4-T
2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	0°	6°	0°	2L4U4VX065X06F060s4-T
	0°	Y1 & Y2 = 2°;Y3 & Y4 = 4°	0°	2L4U4VX065X06FAAAs4-T
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	2L4U4VX065X06FBBBs4-T
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	2L4U4VX065X06FCCCs4-T

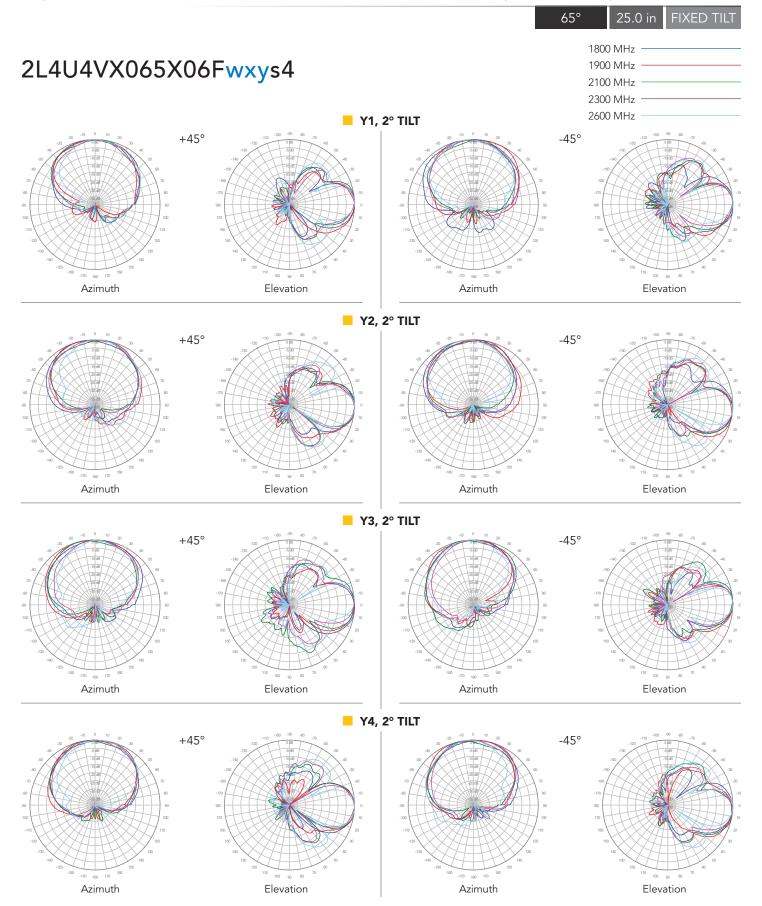
20-Port Panel Antenna

(2x) 617-906 | (4x) 1695-2700 | (4x) 3300-4200 MHz

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3600 MHz

4000 MHz



(2x) 617-906 | (4x) 1695-2700 | (4x) 3300-4200 MHz

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