

65°

24.9 in

FIXED TILT

2C4U3MX065X06Fwxys0

Features

- Fixed tilt panel antenna with 18 connectors
- Ultra-wide band performance
- Ideal solution for Small Cell applications
- This antenna meets the requirements of the U-NII



■ R1 ■ R2

(2x) 696-960

> 25

> 28 same band; > 30 different bands

Frequency Range (MHz)	(2x) 696-960	(4x) 1695-2700	(2x) 3550-3700	(1x) 5150-5925					
Array	■ R1, ■ R2	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2	O 1					
Connector	4 PORTS	8 PORTS	4 PORTS	2 PORTS					
Polarization	XPOL	XPOL	XPOL	XPOL					
Azimuth Beamwidth (avg)	65°	65°	65°	65°					
Electrical Downtilt	0°	2°, 4°, 6°	0°	0°					
Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS	50 WATTS					
Maximum Total Continuous Power at 50° C (122° F)	·	4900 WATTS							
Total Connector Count		18 PORTS							
Connector Type	4.3-10 FEMALE								
Dimensions	633 x 343 x 246 mm (24.9 x 13.5 x 9.7)								
Radome Color Options	GREY								

ELECTRICAL SPECIFICATIONS

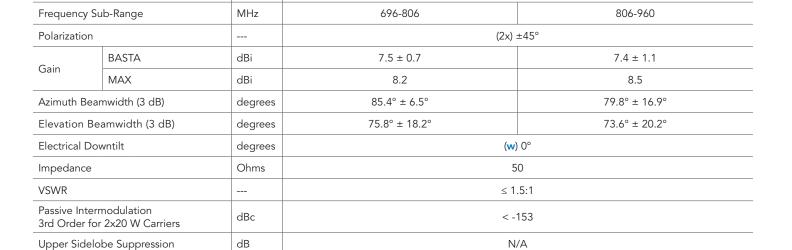
Intraband

Interband

MHz

dB

Frequency Range



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.

Isolation

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ELECTRIC	AL SPECIFICATIONS)		<u> </u>	Y3 Y4				
Frequency I	Range	MHz	(4x) 1695-2700						
Frequency S	Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization			(4x) ±45°						
C :	BASTA	dBi	11.2 ± 0.6	11.2 ± 0.7	11.2 ± 0.9	11.6 ± 1.0			
Gain	MAX	dBi	11.8	11.9	12.1	12.6			
Azimuth Beamwidth (3 dB)		degrees	68.7° ± 10.2°	73.5° ± 7.7°	71.4° ± 10.9°	59.9° ± 14.0°			
Elevation Beamwidth (3 dB)		degrees	35.9° ± 4.0°	32.6° ± 3.7°	30.6° ± 3.9°	25.9° ± 3.6°			
Electrical D	owntilt	degrees	(x) 2°, 4°, 6°						
mpedance		Ohms	50						
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						

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS			■ F1 ■ F2			
Frequency F	Range	MHz	(2x) 3550-3700			
Polarization			(2x) ±45°			
C :	BASTA	dBi	8.1 ± 0.7			
Gain	MAX	dBi	8.8			
Azimuth Bea	amwidth (3 dB)	degrees	70.4°±8.2°			
Elevation Be	eamwidth (3 dB)	degrees	42.8°±3.9°			
Electrical Do	owntilt	degrees	(y) 0°			
Impedance		Ohms	50			
VSWR			≤ 1.5:1			
	rmodulation or 2x20 W Carriers	dBc	N/A			
Upper Sidelobe Suppression		dB	N/A			
1. 1.2	Intraband	dB	> 25			
Isolation	Interband dB		> 28 same band; > 30 different bands			

ELECTRICAL SPECIFICATIONS

(2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz

01

N/A

U-NII Compliant

> 25

> 28 same band; > 30 different bands

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(dBc)

dB

dB

dB

Frequency Range MHz (1x) 5150-5925 Polarization ±45° **BASTA** dBi 5.6 ± 0.6 Gain MAX dBi 6.2 Azimuth Beamwidth (3 dB) degrees $71.9^{\circ} \pm 9.9^{\circ}$ Elevation Beamwidth (3 dB) degrees $21.6^{\circ} \pm 1.5^{\circ}$ **Electrical Downtilt** degrees **(y)** 0° Ohms Impedance 50 **VSWR** ≤ 1.5:1 Passive Intermodulation dBm

MECHANICAL SPECIFICATIONS

3rd Order for 2x20 W Carriers

Upper Sidelobe Suppression

Isolation

Intraband

Interband

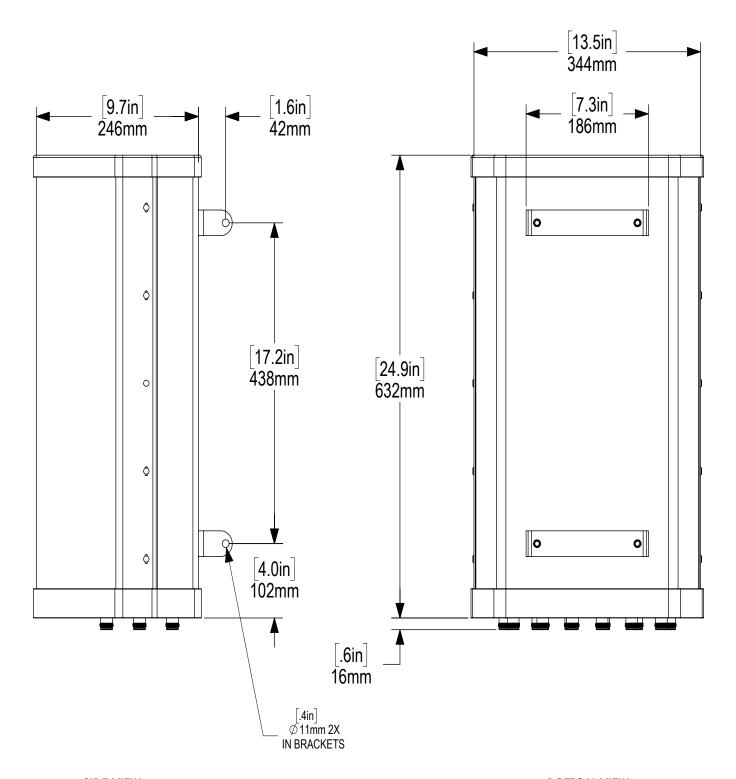
g	Length		mm (in)	633 (24.9)			
Antenna	Width		mm (in)	343 (13.5)			
₹	Depth		mm (in)	246 (9.7)			
Net W	Net Weight - Antenna Only		kg (lbs)	7.3 (16)			
	Calculation		km/h (mph)	160 (100)			
Windl	oad	Frontal	N (lbf)	262 (59)			
		Side	N (lbf)	107 (24)			
Surviv	Survival Wind Speed		km/h (mph)	241 (150)			
Wind	Wind Area		m² (ft²)	0.21 (2.3)			
		Туре		4.3-10 Female			
Conne	ector	Quantity		18			
		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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SIDE VIEW BOTTOM VIEW

65°

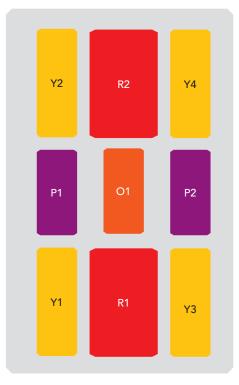
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ARRAY LAYOUT Topology

ARRAT LATOOT Topology										
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE							
696-960	■ R1	1-2	(2x) 4.3-10 Female							
696-960 R2		3-4	(2x) 4.3-10 Female							
1695-2700	■ Y1	5-6	(2x) 4.3-10 Female							
1695-2700	■ Y2	7-8	(2x) 4.3-10 Female							
1695-2700	■ Y3	9-10	(2x) 4.3-10 Female							
1695-2700	■ Y4	11-12	(2x) 4.3-10 Female							
3550-3700	■ P1	13-14	(2x) 4.3-10 Female							
3550-3700	■ P2	15-16	(2x) 4.3-10 Female							
5150-5925	■ O1	17-18	(2x) 4.3-10 Female							



The illustration is not shown to scale.



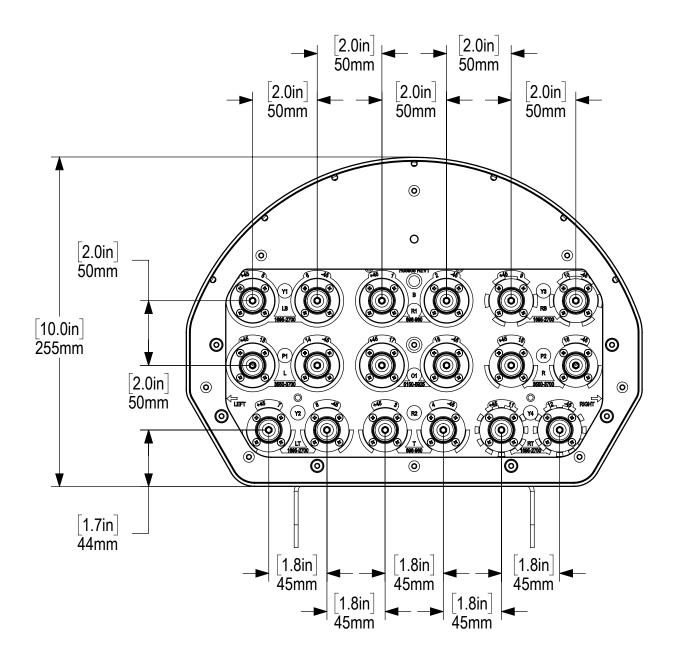
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BOTTOM VIEW - CONNECTOR DIAGRAM



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.

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 $\begin{tabular}{ll} \textbf{MOUNTING KITS} & \textbf{Select from the following mounting options when ordering.} \end{tabular}$

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.

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

	MBER OI			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS			ORDERING OPTION
2C	4U	31	М	×	065	×	06	F	wxy	S	0	-P -T
(2x) 696- 960	(4x) 1695- 2700	(2x) 3550- 3700	(1x) 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		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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$\begin{picture}(60,0) \put(0,0){\line(0,0){190}} \put(0,0){\line(0,0){190$

CELECT MOUNTING KIT	SELECT DEG	REE OF ELECTRICA	ORDER		
SELECT MOUNTING KIT	696-960 MHz	1695-2700 MHz	3550-3700 MHz	5150-5925 MHz	MODEL NUMBER
ANTENNA ONLY - NO MOUNTING KIT	0°	2°	0°	0°	2C4U3MX065X06F020s0
	0°	4°	0°	0°	2C4U3MX065X06F040s0
	0°	6°	0°	0°	2C4U3MX065X06F060s0
	0°	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	2C4U3MX065X06FAAAs0
	0°	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	2C4U3MX065X06FBBBs0
	0°	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	2C4U3MX065X06FCCCs0
ANTENNA WITH MKS09P01 MOUNTING KIT	0°	2°	0°	0°	2C4U3MX065X06F020s0-P
2-Point Mounting Bracket Kit	0°	4°	0°	0°	2C4U3MX065X06F040s0-P
	0°	6°	0°	0°	2C4U3MX065X06F060s0-P
	0°	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	2C4U3MX065X06FAAAs0-P
	0°	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	2C4U3MX065X06FBBBs0-P
	0°	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	2C4U3MX065X06FCCCs0-P
ANTENNA WITH MKS09T01 MOUNTING KIT	0°	2°	0°	0°	2C4U3MX065X06F020s0-T
2-Point, Scissor Tilt, Mounting &	0°	4°	0°	0°	2C4U3MX065X06F040s0-T
Downtilt Bracket Kit	0°	6°	0°	0°	2C4U3MX065X06F060s0-T
	0°	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	2C4U3MX065X06FAAAs0-T
	0°	Y1 & Y2 = 2° Y3 & Y4 = 6°	0°	0°	2C4U3MX065X06FBBBs0-T
	0°	Y1 & Y2 = 4° Y3 & Y4 = 6°	0°	0°	2C4U3MX065X06FCCCs0-T

750 MHz

850 MHz



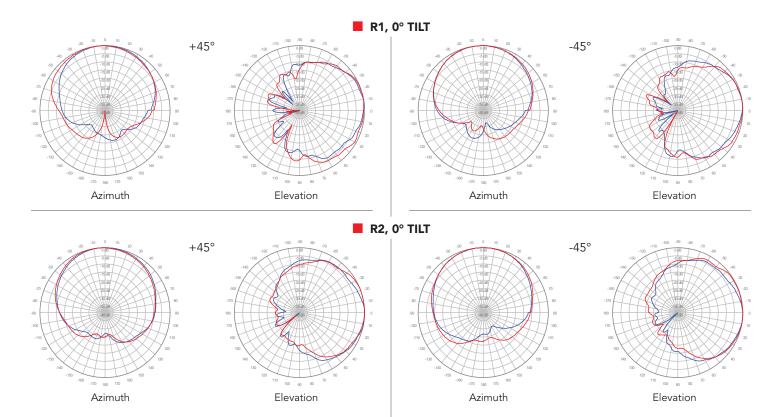
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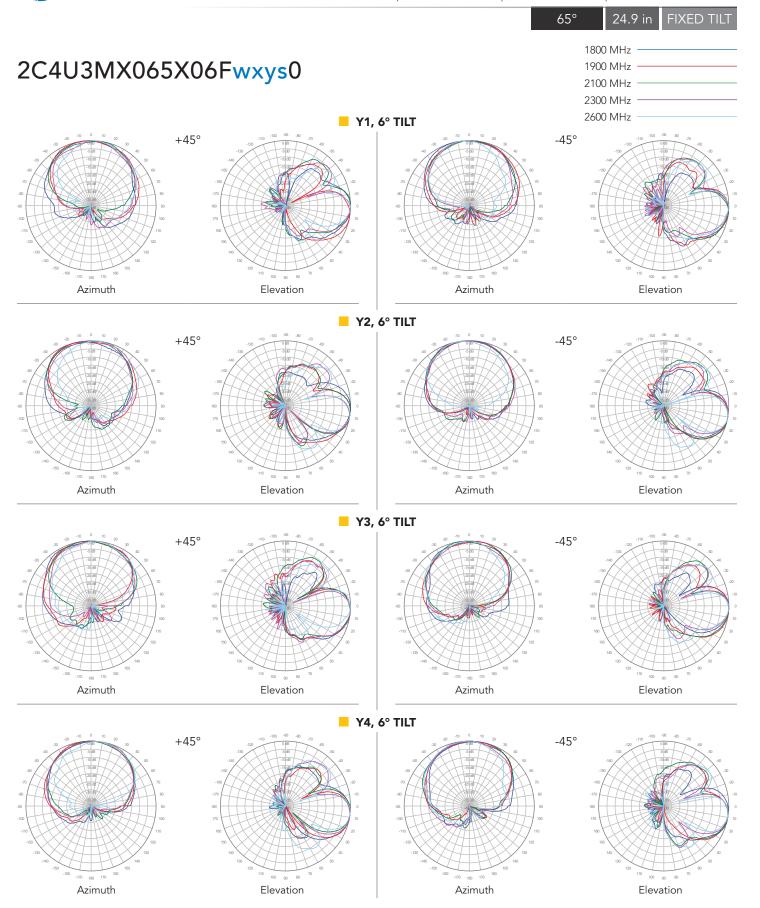
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