# 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



	Fraguency Pance (MHz)	LO	W		М	D	CBRS (2x) 3550-3700		LAA		
	Frequency Range (MHz)	(2x) 69	6-960		(4x) 169	5-2700			(1x) 5150-5925		
ă ≧	Array	■ R1	<b>R</b> 2	■ Y1	■ Y2	Y3	■ Y4	■ P1	■ P2	<b>O</b> 1	
ERVIEW	Connector	4 PC	RTS	8 PORTS				4 PORTS		2 PORTS	
OVE	Polarization	XPOL			XP	OL	XPOL		XPOL		
לַ	Azimuth Beamwidth (avg)	65°		65°				65°		65°	
PRODU	Electrical Downtilt	0	0		2°, 4	°, 6°	C	)°	0°		
PRC	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)									

ELECTRICA	L SPECIFICATIONS	Low Band	■ R1 ■ R2				
Frequency Ra	nge	MHz	(2x) 69	96-960			
Frequency Sul	b-Range	MHz	696-806	806-960			
Polarization			(2x)	±45°			
C :	BASTA	dBi	7.8 ± 0.6	7.8 ± 0.9			
Gain	MAX	dBi	8.4	8.7			
Azimuth Bean	nwidth (3 dB)	degrees	85.4° ± 9.1°	81.8° ± 16.3°			
Elevation Bea	amwidth (3 dB)	degrees	70.8° ± 12.9°	65.9° ± 16.2°			
Electrical Dow	vntilt	degrees	(w) 0°				
Impedance		Ohms	50				
VSWR			≤ 1.5:1				
Passive Interm 3rd Order for	nodulation 2x20 W Carriers	dBc	< -153				
Upper Sidelok	oe Suppression	dB	N/A				
Maximum Pov	wer Per Port	Watts	(4x) 500				
1 1	Intraband	dB	>	> 25			
Isolation	Interband	dB	> 28				

65°

24.9 in

FIXED TILT

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ELECTRIC	CAL SPECIFICATIONS	Mid Band	■ Y1 ■ Y2 ■ Y3 ■ Y4						
Frequency	Range	MHz	(4x) 1695-2700						
Frequency	Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization	1		(4x) ±45°						
Gain	BASTA	dBi	10.9 ± 0.5	10.7 ± 0.6	10.9 ± 0.8	11.6 ± 1.0			
	MAX	dBi	11.4	11.3	11.7	12.6			
Azimuth Be	amwidth (3 dB)	degrees	72.9° ± 10.3°	75.4° ± 6.1°	71.1° ± 10.9°	58.9° ± 13.7°			
Elevation B	eamwidth (3 dB)	degrees	37.4° ± 4.2° 35.3° ± 3.8° 33.		33.0° ± 4.5°	27.9° ± 4.2°			
Electrical D	owntilt	degrees	(x) 2°, 4°, 6°						
Impedance		Ohms	50						
VSWR			≤ 1.5:1						
	ermodulation or 2x20 W Carriers	dBc	< -153						
Upper Side	lobe Suppression	dB	N/A						
Maximum F	Power Per Port	Watts		(8x) 3	800 W				
Isolation	Intraband	dB	> 25	> 25	> 25	> 25			
	Interband	dB	> 28	> 28	> 28	> 28			

ELECTRIC	AL SPECIFICATIONS	CBRS Band	■ P1 ■ P2
Frequency R	Frequency Range		(2x) 3550-3700
Polarization	larization $(2x) \pm 45^{\circ}$		(2x) ±45°
C - : :	BASTA	dBi	8.2 ± 0.7
Gain	MAX	dBi	8.9
Azimuth Bea	amwidth (3 dB)	degrees	72.9°±7.0°
Elevation Be	Elevation Beamwidth (3 dB)		40.9°±4.5°
Electrical Do	Electrical Downtilt		<b>(y)</b> 0°
Impedance	Impedance		50
VSWR			≤ 1.5:1
Passive Inter 3rd Order fo	rmodulation or 2x20 W Carriers	dBc	N/A
Upper Sidel	obe Suppression	dB	N/A
Maximum Po	Maximum Power Per Port		(4x) 100
la alatina	Intraband	dB	> 25
Isolation	Interband	dB	> 28

65°

24.9 in

FIXED TILT

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ELECTRIC	AL SPECIFICATIONS	LAA Band	<b>O</b> 1		
Frequency	Range	MHz	(1x) 5150-5925		
Polarization	1		±45°		
6 :	BASTA	dBi	4.6 ± 0.7		
Gain	MAX	dBi	5.3		
Azimuth Be	Azimuth Beamwidth (3 dB)		69.6° ± 17.7°		
Elevation Beamwidth (3 dB)		degrees	23.2° ± 2.4°		
Electrical D	Electrical Downtilt		<b>(y)</b> 0°		
Impedance	Impedance		50		
VSWR			≤ 1.5:1		
	ermodulation or 2x20 W Carriers	dBm (dBc)	N/A		
Upper Side	lobe Suppression	dB	U-NII Compliant		
Maximum Power Per Port		Watts	(2x) 50		
1 1 2	Intraband	dB	> 25		
Isolation	Interband	dB	> 28		

#### **MECHANICAL SPECIFICATIONS**

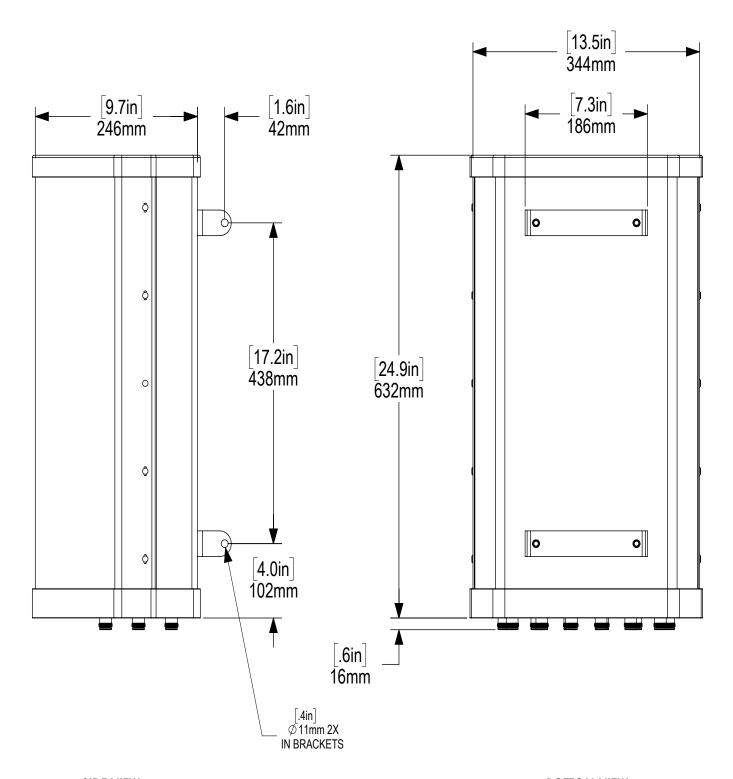
Antenna	Length		mm (in) 633 (24.9)			
	Width		mm (in)	343 (13.5)		
₹	Depth		mm (in)	246 (9.7)		
Net W	Net Weight - Antenna Only			7.3 (16)		
		Calculation	km/h (mph)	160 (100)		
Windl	oad	d Frontal		262 (59)		
	Side		N (lbf)	107 (24)		
Surviv	Survival Wind Speed			241 (150)		
Wind	Wind Area			0.21 (2.3)		
		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)		
Lightn	ing Protection (Ground	ding Type)		Direct Ground		



65°

24.9 in FIXED TILT

### 2C4U3MX065X06Fwxys0



**SIDE VIEW BOTTOM VIEW** 

65°

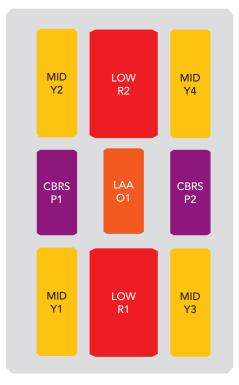
24.9 in

FIXED TILT

# 2C4U3MX065X06Fwxys0

#### ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE	
	696-960	■ R1	1-2	(2x) 4.3-10 Female	
LOW BAND	696-960	■ R2	3-4	(2x) 4.3-10 Female	
	1695-2700	■ Y1	5-6	(2x) 4.3-10 Female	
MID BAND	1695-2700	■ Y2	7-8	(2x) 4.3-10 Female	
MID BAND	1695-2700	■ Y3	9-10	(2x) 4.3-10 Female	
	1695-2700	■ Y4	11-12	(2x) 4.3-10 Female	
CBRS BAND	3550-3700	■ P1	13-14	(2x) 4.3-10 Female	
CDR3 DAIND	3550-3700	■ P2	15-16	(2x) 4.3-10 Female	
LAA BAND	5150-5925	<b>O</b> 1	17-18	(2x) 4.3-10 Female	



The illustration is not shown to scale.



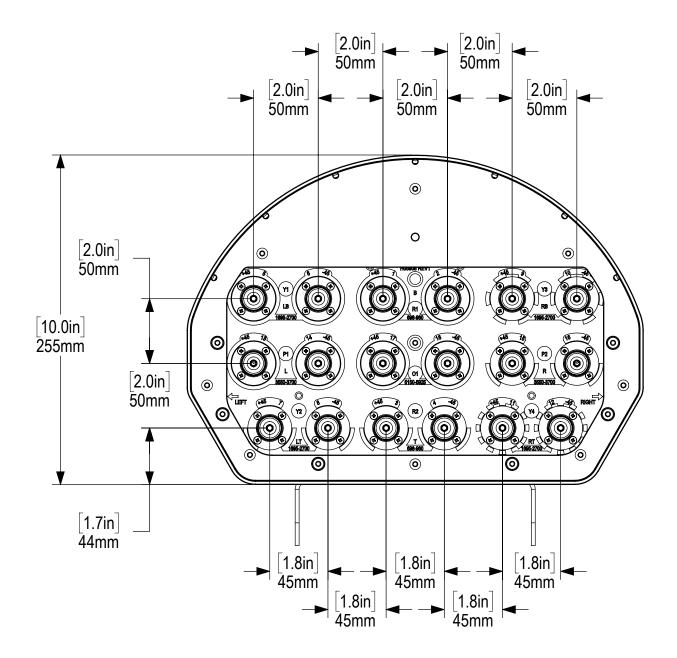
65°

24.9 in

FIXED TILT

### 2C4U3MX065X06Fwxys0

#### **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.

65°

24.9 in

FIXED TILT

# 2C4U3MX065X06Fwxys0

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.

65°

24.9 in

FIXED TILT

# 2C4U3MX065X06Fwxys0

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

	NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN AZIMUTH POLARIZA- TYPE BMWDTH TION LENGT			TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
2C	4U	31	М	X	065	х	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	Original Variation	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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24.9 in

**FIXED TILT** 

# 2C4U3MX065X06Fwxys0

#### **ORDERING OPTIONS** Select from the following ordering options

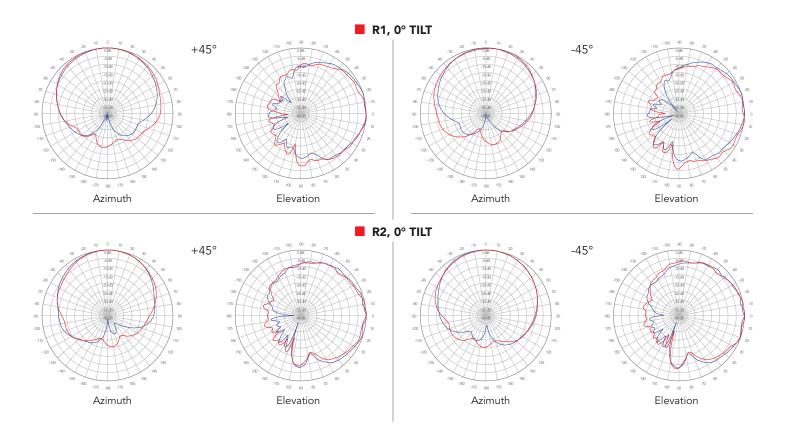
CELECT MOUNTING WIT	SELECT DEG	REE OF ELECTRICA	ORDER		
SELECT MOUNTING KIT	LOW BAND	MID BAND	CBRS BAND	LAA BAND	MODEL NUMBER
ANTENNA ONLY - NO MOUNTING KIT	0°	2°	0°	0°	2C4U3MX065X06F020s0
	0°	4°	0°	0°	2C4U3MX065X06F040s0
	0°	6°	0°	0°	2C4U3MX065X06F060s0
	0°	Y1 & Y2 = 2° Y3 & Y4 = 4°	0°	0°	2C4U3MX065X06FAAAs0
	O°	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
	O°	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

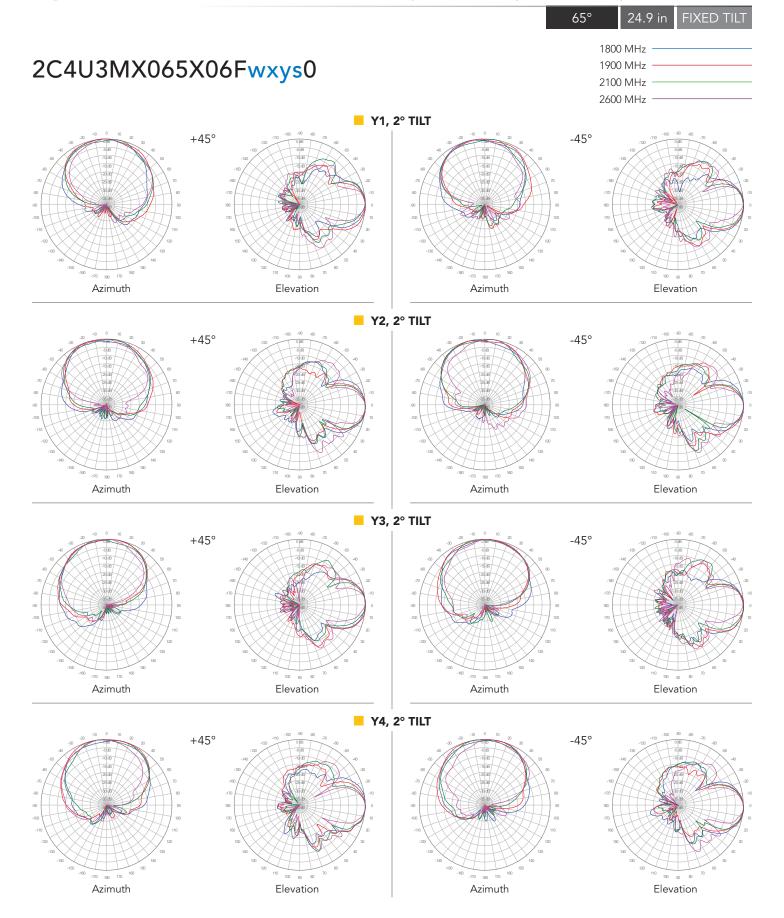


65° 24.9 in FIXED TILT

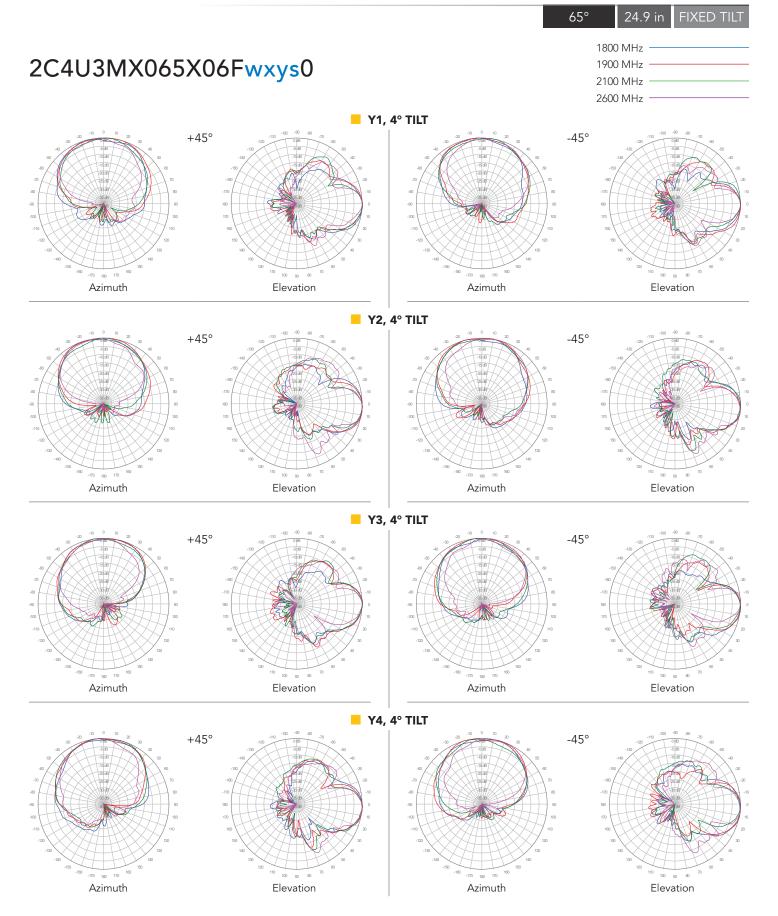
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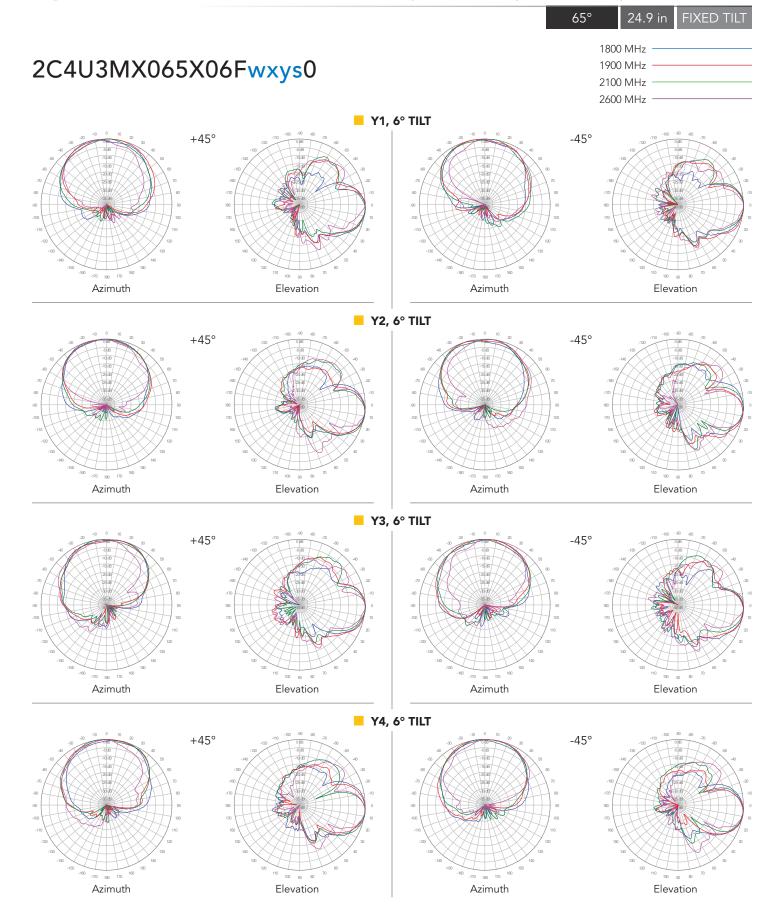
# 2C4U3MX065X06Fwxys0











65°

24.9 in

FIXED TILT

### 2C4U3MX065X06Fwxys0

