

PEANUT-SHAPE

24 IN

FIXED TILT

2C4U3MB180X06Fwxys4

Features

- 180° peanut-shape configuration with 18 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Can be ordered with an integrated GPS unit
- This antenna meets the requirements of the U-NII



	Frequency Range (MHz)	(2x) 696-960 (4x) 1695-2700		(2x) 3300-4200	(1x) 5150-5925	Optional GPS BAND 1575.42 ± 10			
	Array	■ R1, ■ R2 ■ Y1, ■ Y2, ■ Y3, ■ Y4		■ P1, ■ P2	O 1				
	Connector	4 PORTS	8 PORTS	4 PORTS	2 PORTS	1 PORT			
\geq	Polarization	XPOL	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR			
OVERVIEW	Azimuth Beamwidth (avg)	84°	65°	56°	67°				
)VE	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°				
CL	Configuration								
PRODUC	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS	50 WATTS				
PR(Maximum Total Continuous Power at 50° C (122° F)								
	Connector Type		(1x) N-TYPE FEMALE						
	Dimensions		608 x Ø371 mm (24.0 x Ø14.6 in)						
	Radome Color Options								

ELECTRICAL SPECIFICATIONS

ELECTRICA	AL SPECIFICATIONS		■ R1 ■ R2				
Frequency R	ange	MHz	(2x) 696-960				
Frequency S	ub-Range	MHz	696-806 806-960				
Polarization			(2x)	±45°			
Cair	BASTA	dBi	4.5 ± 0.5	4.7 ± 1.1			
Gain	MAX	dBi	5.0	5.8			
Azimuth Beamwidth (3 dB)		degrees	95.9° ± 18.6°	73.3° ± 23.4°			
Elevation Beamwidth (3 dB)		degrees	83.7° ± 11.7°	75.5° ± 14.9°			
Electrical Do	wntilt	degrees	(w) 0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.5:1				
Passive Inter 3rd Order fo	modulation r 2x20 W Carriers	dBc	< -153				
Upper Sidelobe Suppression		dB	N/A				
la alatia a	Intraband	dB	>	25			
Isolation	Interband	dB	>	28			



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ELECTRICAL SPECIFICATIONS	Y1	Y2	Y3	Y4
ELECTRICAL SI ECII ICATIONS		12	<u> </u>	- 17

Frequency	Range	MHz	(4x) 1695-2700						
Frequency	Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization	n								
Gain	BASTA	dBi	7.6 ± 0.7	7.5 ± 0.7	7.4 ± 0.9	8.2 ± 0.9			
	MAX	dBi	8.3	8.2	8.3	9.1			
Azimuth Beamwidth (3 dB)		degrees	65.5° ± 15.6°	70.3° ± 12.0°	66.2° ± 16.8°	57.5° ± 13.0°			
Elevation Beamwidth (3 dB)		degrees	37.3° ± 6.2°	34.8° ± 6.2°	33.0° ± 6.0°	26.7° ± 4.7°			
Electrical D	Powntilt	degrees	(x) 2°, 4°, 6°						
Impedance	2	Ohms	50Ω						
VSWR			≤ 1.5:1						
	ermodulation for 2x20 W Carriers	dBc	< -153						
Upper Sidelobe Suppression		dB	N/A						
1 1 2	Intraband	dB		>	25				
Isolation	Interband	dB		8.2 ± 0.9 9.1 57.5° ± 13.0°					

ELECTRICAL SPECIFICATIONS P1 P2

Frequency Range		MHz	(2x) 3300-4200		
Polarization	Polarization		(2x) ±45°		
<u> </u>	BASTA	dBi	6.7 ± 0.5		
Gain	MAX	dBi	7.2		
Azimuth Bea	mwidth (3 dB)	degrees	56.4° ± 7.4°		
Elevation Be	Elevation Beamwidth (3 dB)		37.1° ± 7.6°		
Electrical Do	Electrical Downtilt		(y) 0°		
Impedance		Ohms	50Ω		
VSWR			≤ 1.5:1		
Passive Inter 3rd Order fo	modulation r 2x20 W Carriers	dBc	<-153		
Upper Sidelo	Upper Sidelobe Suppression		N/A		
Isolation	Intraband	dB	> 25		
isolation	Interband	dB	> 28		



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ELECTRICAL SPECIFICATIONS		O 1

Frequency Range		MHz	(1x) 5150-5925	
Polarization			(1x) ±45°	
Gain	BASTA	dBi	4.7± 0.7	
	MAX	dBi	5.4	
Azimuth Bea	mwidth (3 dB)	degrees	67.1° ± 41.1°	
Elevation Be	amwidth (3 dB)	degrees	20.5° ± 6.8°	
Electrical Downtilt		degrees	(y) 0°	
Impedance		Ohms	50Ω	
VSWR			≤ 1.5:1	
Passive Inter 3rd Order fo	modulation r 2x20 W Carriers	dBc	N/A	
Upper Sidelo	bbe Suppression	dB	Meets FCC requirements upper pattern control for use in LAA outdoor network	
1 1 2	Intraband	dB	> 25	
Isolation	Interband	dB	> 28	
U-NII Compliant			Yes	

INTEGRATED GPS UNIT OPTIONAL

Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR	< 2.0:1
Connector	N-Type Female

PEANUT-SHAPE

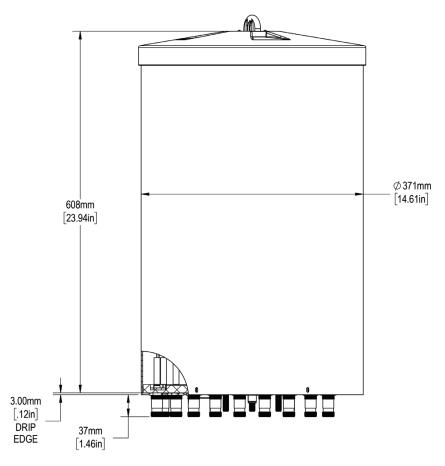
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MECHANICAL SPECIFICATIONS

enna	Height		mm (in)	608 (24.0)			
Antenna	Diameter		mm (in)	371 (14.6)			
Net W	eight - Antenna Only		kg (lbs)	13 (29.0)			
Windload Calculation Frontal		km/h (mph)	160 (100)				
		Frontal	N (lbf)	191 (43)			
Surviv	Survival Wind Speed		km/h (mph)	241 (150)			
Wind	Wind Area		m² (ft²)	0.22 (2.4)			
Volum	е		m³ (ft³)	0.07 (2.3)			
<u> </u>		Туре		(18x) 4.3-10 Female; (1x) N-Type Female for optional GPS Unit			
Conne	ector	Position		Bottom			
Radome Color			Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)				
Lightn	ing Protection (Groun	ding Type)		Direct Ground			



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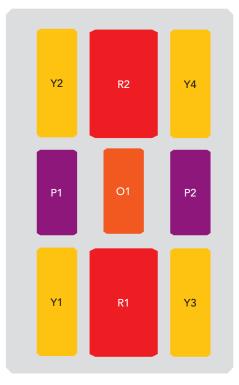
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ARRAY LAYOUT Topology

ARRAI LATOOT Topology								
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE					
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female					
696-960 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					
5150-5925 MHz	O 1	17-18	(2x) 4.3-10 Female					
Optional GPS BAND 1575.42 MHz			(1x) N-Type Female					



The illustration is not shown to scale.

PEANUT-SHAPE

FIXED TILT

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MODEL NUMBER	DESCRIPTION
CWT-MKS-SIDE	SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-TOP	TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA
WB3X-MKS-01	UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-BASE-xx	WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE.



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

	MBER OI RATING			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS
2C	4U	31	M	В	180	X	06	F	wxy	S	4	BK BR	-GPS
(2x) 696- 960	(4x) 1695- 2700	(2x) 3300- 4200	(1x) 5150- 5925	Back-to- Back	~180° Peanut- Shape	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.		4th generation enhanced mechanical package	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.	an integrated GPS unit

ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				SELECT ANTENNA TYPE	
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey Pantone 420 C	0°	2°	0°	0°	2C4U3MB180X06F 020 s4	2C4U3MB180X06F020s4-GPS
	0°	4°	0°	0°	2C4U3MB180X06F 040 s4	2C4U3MB180X06F 040 s4-GPS
	0°	6°	0°	0°	2C4U3MB180X06F060s4	2C4U3MB180X06F060s4-GPS
Brown Pantone 476 C	0°	2°	0°	0°	2C4U3MB180X06F020s4BR	2C4U3MB180X06F 020 s4 BR -GPS
	0°	4°	0°	0°	2C4U3MB180X06F 040 s4BR	2C4U3MB180X06F 040 s4 BR -GPS
	0°	6°	0°	0°	2C4U3MB180X06F060s4BR	2C4U3MB180X06F060s4BR-GPS
Black RAL 9011	0°	2°	0°	0°	2C4U3MB180X06F020s4BK	2C4U3MB180X06F 020 s4 BK -GPS
	0°	4°	0°	0°	2C4U3MB180X06F 040 s4 BK	2C4U3MB180X06F 040 s4 BK -GPS
	0°	6°	0°	0°	2C4U3MB180X06F060s4BK	2C4U3MB180X06F060s4BK-GPS

18-Port Canister Antenna

750 MHz

850 MHz

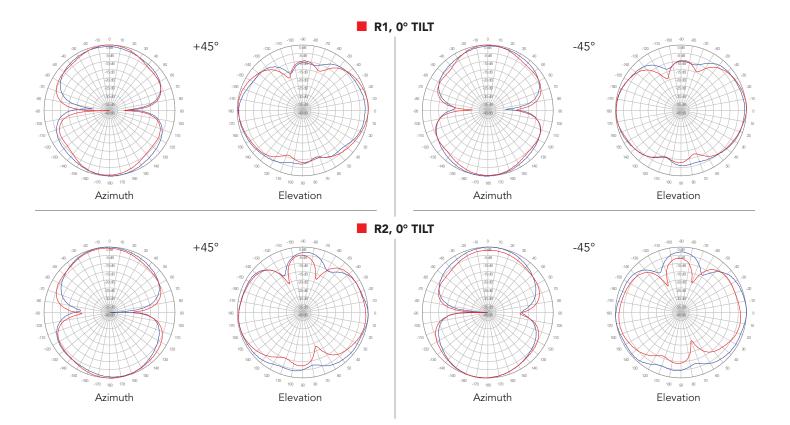
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

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1800 MHz

1900 MHz



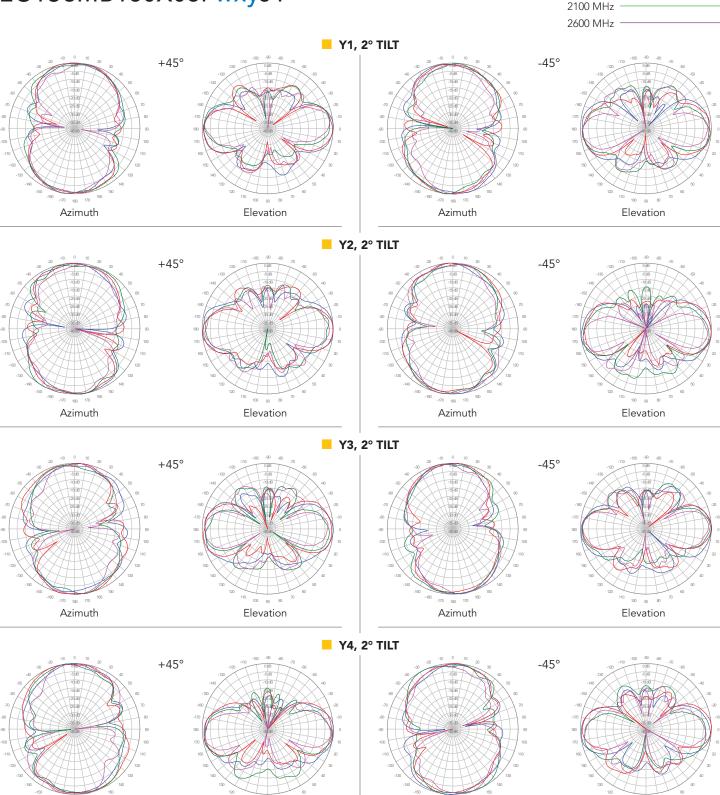
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

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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.

Elevation

Azimuth

Elevation

Azimuth





1800 MHz

1900 MHz

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1800 MHz

1900 MHz

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(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

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Elevation

Azimuth

Elevation

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Amphenol

ANTENNA SOLUTIONS

