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

SINGLE SECTOR 24.6 IN

FIXED TILT

2C4U3MS070X06Fwxys4

Features

- 70° single sector 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
- This antenna meets the requirements of the U-NII



	Frequency Range (MHz)	(2x) 696-960	(4x) 1695-2700	(2x) 3300-4200	(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					
VERVIEW	Azimuth Beamwidth (avg)	80°	70°	70°	70°					
OVE	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°					
	Configuration	SINGLE SECTOR CONFIGURATION								
ODUCT	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)	4900 WATTS								
	Connector Type	(18x) 4.3-10 FEMALE CONNECTORS								
	Dimensions	626 x Ø371 mm (24.6 x Ø14.6 in)								
	Radome Color Options	GREY, BROWN or BLACK								

ELECTRICAL SPECIFICATIONS



Frequency Range		MHz	(2x) 696-960				
Frequency Sub-Range		MHz	696-806 806-960				
Polarization			(2x) ±45°				
Cata	BASTA	dBi	7.6 ± 0.7	7.2 ± 1.1			
Gain	MAX	dBi	8.3	8.3			
Azimuth Bea	amwidth (3 dB)	degrees	83.8° ± 8.6°	77.9° ± 21.3°			
Elevation B	eamwidth (3 dB)	degrees	79.4° ± 11.5°	80.1° ± 17.4°			
Electrical Do	owntilt	degrees	(w) 0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.5:1				
	rmodulation or 2x20 W Carriers	dBc	< -153				
Upper Sidelobe Suppression		dB	N/A				
Front-to-Back Ratio		dB	> 17 > 13				
la alatia a	Intraband	dB	>				
Isolation	Interband	dB	>	28			

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

SINGLE SECTOR 24.6 IN

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ELECTRIC	CAL SPECIFICATIONS	;		■ Y1 ■ Y2	Y3 Y4				
Frequency	Range	MHz	(4x) 1695-2700						
Frequency	Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization	n			(4x)	±45°				
Gain	BASTA	dBi	11.0 ± 0.6	10.6 ± 0.9	10.7 ± 1.0	11.2 ± 0.9			
	MAX	dBi	11.6	11.5	11.7	12.1			
Azimuth Beamwidth (3 dB)		degrees	72.7° ± 9.4°	76.3° ± 8.0°	71.0° ± 13.2°	54.9° ± 11.5°			
Elevation Beamwidth (3 dB)		degrees	35.8° ± 4.5°	34.1° ± 4.4°	32.8° ± 5.0°	28.4° ± 4.6°			
Electrical D	Downtilt	degrees	(x) 2°, 4°, 6°						
Impedance	9	Ohms	50Ω						
VSWR			≤ 1.5:1						
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153						
Upper Sidelobe Suppression d		dB	N/A						
Front-to-Back Ratio		dB	> 19	> 19	> 20	>20			
Intraband		dB	> 25						

ELECTRICAL SPECIFICATIONS

Interband

dB

Isolation

ELECTRICAL SI ESII ICATIONS							
Frequency Range		MHz	(2x) 3300-4200				
Polarization	n		(2x) ±45°				
Gain	BASTA	dBi	9.0 ± 0.4				
	MAX	dBi	9.4				
Azimuth Be	eamwidth (3 dB)	degrees	55.3° ± 6.0°				
Elevation E	Beamwidth (3 dB)	degrees	40.8° ± 5.6°				
Electrical D	Downtilt	degrees	(y) 0°				
Impedance	2	Ohms	50Ω				
VSWR			≤ 1.5:1				
	ermodulation for 2x20 W Carriers	dBc	< -153				
Upper Side	elobe Suppression	dB	N/A				
Front-to-Back Ratio		dB	> 24				
	Intraband	dB	> 25				
Isolation	Interband	dB	> 28				



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

SINGLE SECTOR 24.6 IN FIXED TILT

2C4U3MS070X06Fwxys4

ELECTRICAL SPECIFICATIONS			O 1			
Frequency Range		MHz	(1x) 5150-5925			
Polarization			(1x) ±45°			
Gain	BASTA	dBi	5.4 ± 0.9			
Gain	MAX	dBi	6.3			
Azimuth Be	amwidth (3 dB)	degrees	56.4° ± 26.3°			
Elevation B	eamwidth (3 dB)	degrees	21.6° ± 2.8°			
Electrical Downtilt		degrees	(y) 0°			
Impedance		Ohms	50Ω			
VSWR			≤ 1.5:1			
	rmodulation or 2x20 W Carriers	dBc	N/A			
Upper Side	lobe Suppression	dB	Meets FCC requirements upper pattern control for use in LAA outdoor network			
Front-to-Ba	ck Ratio	dB	> 30			
La La Cara	Intraband	dB	> 25			
Isolation	Interband	dB	> 28			
U-NII Comp	bliant		Yes			

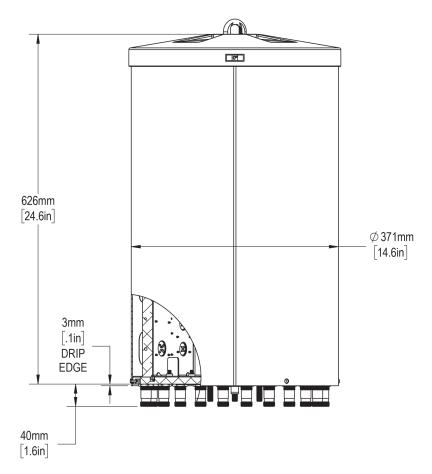
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

SINGLE SECTOR 24.6 IN FIXED TILT

2C4U3MS070X06Fwxys4

MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	626 (24.6)		
Ante	Diameter		mm (in)	371 (14.6)		
Net W	Net Weight - Antenna Only			10.9 (24.0)		
Windload Calculation Frontal		Calculation	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	e		m³ (ft³)	0.07 (2.3)		
Conne	actor	Туре		(18x) 4.3-10 Female		
Conne	ector	Position		Bottom		
Radome Color			Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)			
Lightn	ing Protection (Groun	ding Type)		Direct Ground		



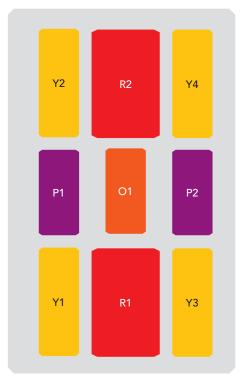
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

SINGLE SECTOR 24.6 IN FIXED TILT

2C4U3MS070X06Fwxys4

ARRAY LAYOUT Topology

711111111111111111111111111111111111111	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	■ O1	17-18	(2x) 4.3-10 Female						



The illustration is not shown to scale.



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

SINGLE SECTOR 24.6 IN FIXED TILT

2C4U3MS070X06Fwxys4

BOTTOM VIEW - LABELING

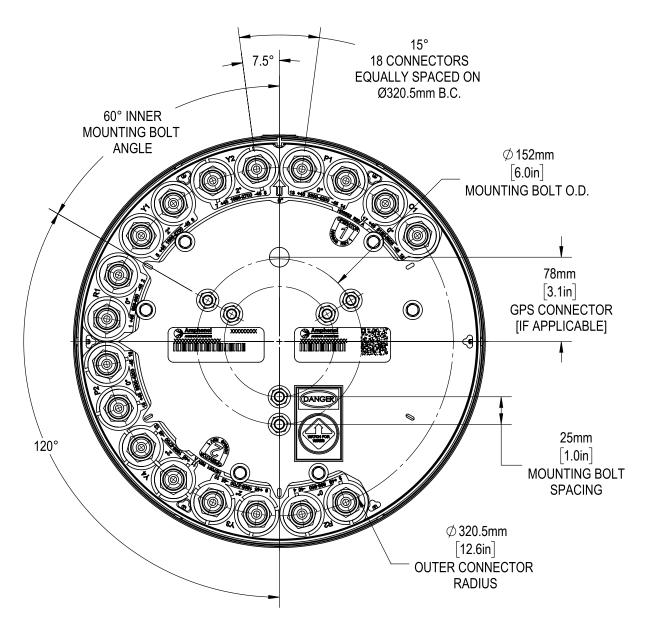


(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

SINGLE SECTOR 24.6 IN FIXED TILT

2C4U3MS070X06Fwxys4

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.

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

SINGLE SECTOR 24.6 IN

2C4U3MS070X06Fwxys4

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.



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

SINGLE SECTOR 24.6 IN

2C4U3MS070X06Fwxys4

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

	MBER OI ERATING			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	4U	3	M	S	070	x	06	F	wxy	S	4	BK BR
(2x) 696- 960	(4x) 1695- 2700	(2x) 3300- 4200	(1x) 5150- 5925	Single Sector	~70°	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 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.

ORDERING OPTIONS Select from the following ordering options

SELECT BARONE COLOR	SELECT DEG	REE OF ELECTRICA	MODELNIIMBED		
SELECT RADOME COLOR	696-960 MHz	696-960 MHz		MODEL NUMBER	
	0°	2°	0°	0°	2C4U3MS070X06F 020 s4
Grey RAL 7035	0°	4°	0°	0°	2C4U3MS070X06F 040 s4
	0°	6°	0°	0°	2C4U3MS070X06F060s4
	0°	2°	0°	0°	2C4U3MS070X06F020s4BR
Brown RAL 8022	0°	4°	0°	0°	2C4U3MS070X06F 04 0s4BR
	0°	6°	0°	0°	2C4U3MS070X06F060s4BR
	0°	2°	0°	0°	2C4U3MS070X06F 020 s4BK
Black RAL 9011	0°	4°	0°	0°	2C4U3MS070X06F040s4BK
	0°	6°	0°	0°	2C4U3MS070X06F060s4BK

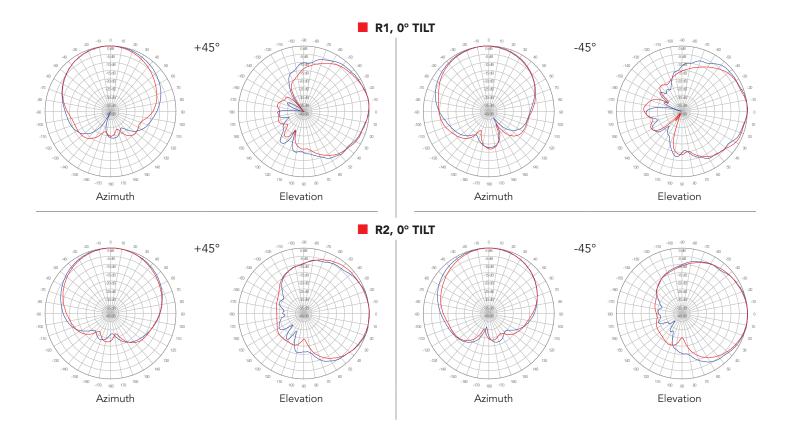
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

SINGLE SECTOR 24.6 IN FIXED TILT

750 MHz

850 MHz

2C4U3MS070X06Fwxys4



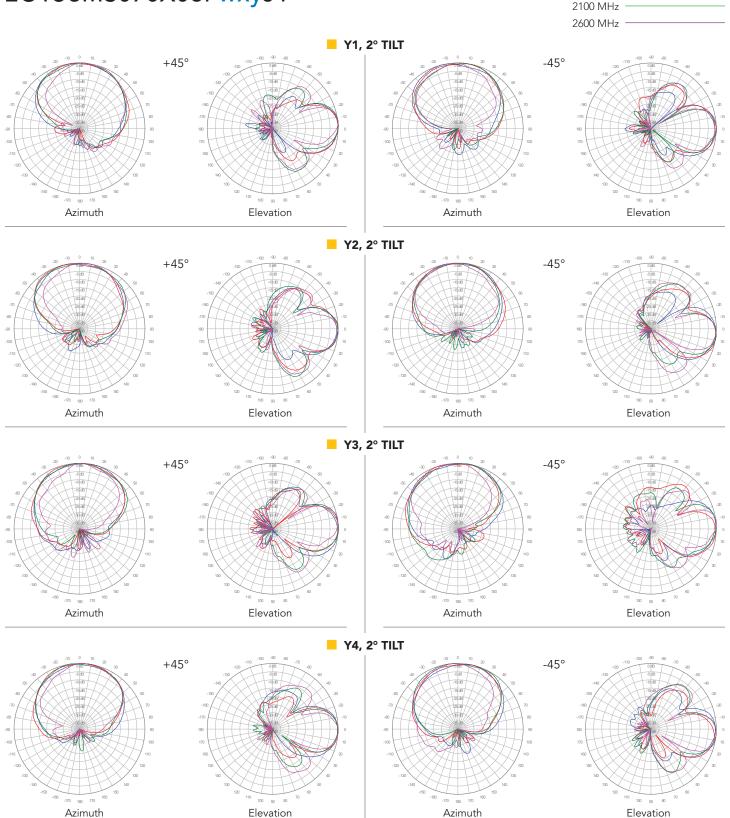
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz



1800 MHz

1900 MHz

2C4U3MS070X06Fwxys4



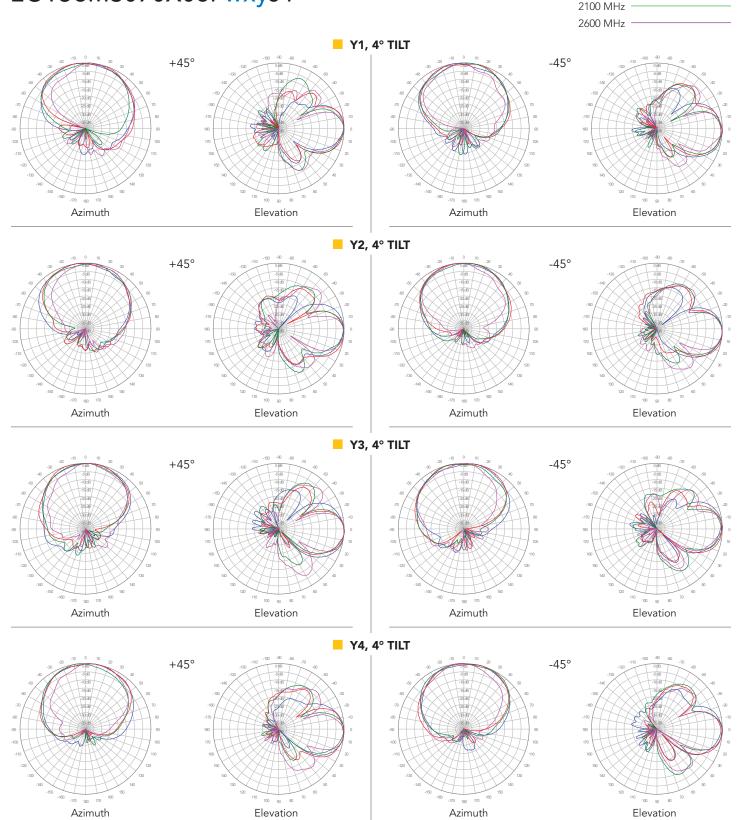
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz



1800 MHz

1900 MHz

2C4U3MS070X06Fwxys4



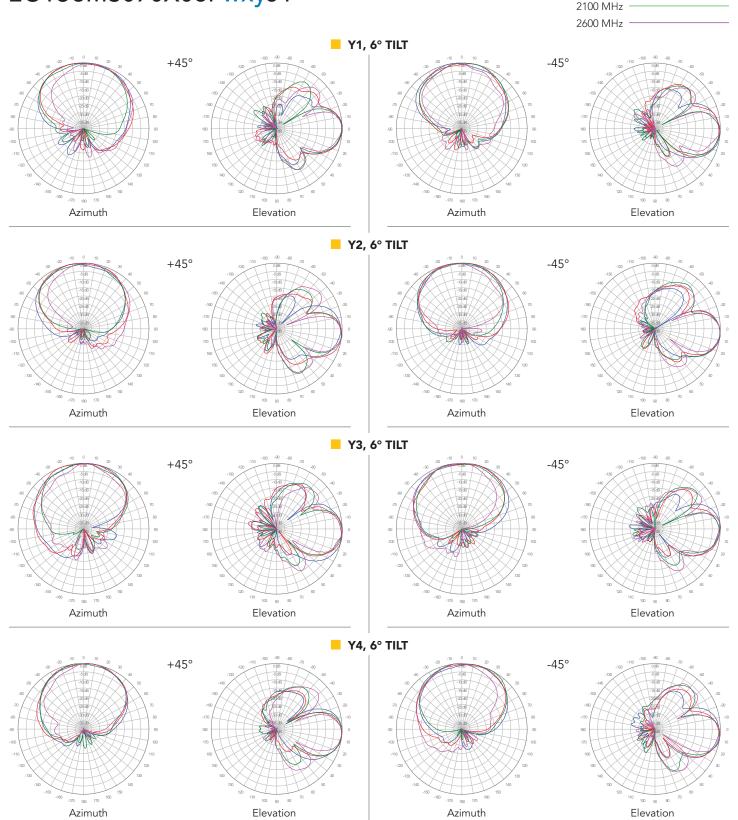
(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

SINGLE SECTOR 24.6 IN FIXED TILT

1800 MHz

1900 MHz

2C4U3MS070X06Fwxys4



SINGLE SECTOR 24.6 IN FIXED TILT

2C4U3MS070X06Fwxys4

