

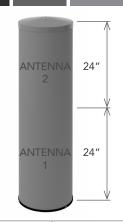
HEART-SHAPE

48.0 IN FIXED TILT

C2U3MD120X12Fwxys0

Features

- Broad-Beam 120° heart-shape configuration with 12 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- 5 GHz U-NII FCC compliant
- Available for order with a grey, brown or black radome



	[LOW BAND	MID BAND		CBRS BAND		LAA BAND				
	Frequency Range (MHz)	(1x) 696-960	(2x) 1695-2700		(2x) 3550-3700		(1x) 5150-5925				
>	Array	■ R1	■ Y1	■ Y2	■ P1	■ P2	O 1				
ERVIEW	Connector	2 PORTS	4 PORTS		4 PORTS		2 PORTS				
VER	Polarization	XPOL	XPOL		XPOL		XPOL				
0	Azimuth Beamwidth (avg)	202°	187°		169°		206°				
Snc	Electrical Downtilt	0°, 5°	2°,	. 6°	C	0°					
PRODU	Configuration	HEART-SHAPE CONFIGURATION									
	Connector Type	(12x) 4.3-10 FEMALE CONNECTORS									
	Dimensions	1219 x Ø371 mm (48.0 x Ø14.6 in)									
	Radome Color Options	GREY, BROWN or BLACK									

ELECTRICAL SPECIFICATIONS Low Band **R**1

Frequency Range		(1x) 696-960				
Frequency Sub-Range		696-806 806-960				
		(1x) ±45°				
ASTA	dBi	9.5 ± 0.6	10.1 ± 0.8			
AX	dBi	10.1	10.9			
dth (3 dB)	degrees	206.1° ± 9.5°	196.9° ± 11.9°			
width (3 dB)	degrees	23.7° ± 1.7°	20.9° ± 2.2°			
lt	degrees	(w) 0°, 5°				
Impedance		50Ω				
		≤ 1.5:1				
lulation 20 W Carriers	dBc	< -153				
Upper Sidelobe Suppression		> 12 dB				
Intraband	dB	> 2	25			
Interband	dB	> 2	28			
	Watts	500W				
	ASTA AX dth (3 dB) width (3 dB) lt ulation 20 W Carriers Suppression Intraband	MHz	ASTA dBi 9.5 ± 0.6 AX dBi 10.1 dth (3 dB) degrees 206.1° ± 9.5° vidth (3 dB) degrees 23.7° ± 1.7° lt degrees (w) 0 Ohms 50 ≤ 1. Julation 20 W Carriers dBc < -1			



Y1 Y2

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ELECTRICAL SPECIFICATIONS Mid Band

Frequency R	ange	MHz	(2x) 1695-2700						
Frequency S	ub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization			(2x) ±45°						
<u> </u>	BASTA	dBi	10.5 ± 0.6	: 0.6 10.8 ± 0.5 10.8 ±		11.0 ± 1.0			
Gain	MAX	dBi	11.1	11.3	11.3	12.0			
Azimuth Bea	mwidth (3 dB)	degrees	185.9° ± 12.2°	189.3° ± 13.9°	188.1° ± 13.8°	185.4° ± 22.6°			
Elevation Beamwidth (3 dB)		degrees	20.3° ± 2.3°	19.1° ± 2.5°	18.1° ± 2.6°	16.9° ± 4.4°			
Electrical Downtilt degree			(x) 2°, 6°						
Impedance		Ohms	50Ω						
VSWR			≤ 1.5:1						
Passive Inter 3rd Order fo	modulation r 2x20 W Carriers	dBc	< -153						
Upper Sidelo	bbe Suppression	dB	> 11						
la alatia a	Intraband	dB		> 25					
Isolation	Interband	dB	> 28						
Input Power		Watts	300W						

ELECTRICAL SPECIFICATIONS CBRS Band ■ P1 ■ P2

Frequency Range		MHz	(2x) 3550-3700
Polarization	Polarization		(2x) ±45°
Cain	BASTA	dBi	6.2 ± 0.6
Gain	MAX	dBi	6.8
Azimuth Be	amwidth (3 dB)	degrees	168.8° ± 16.6°
Elevation Be	Elevation Beamwidth (3 dB)		37.3° ± 10.8°
Electrical Do	Electrical Downtilt		(y) 0°
Impedance	Impedance		50Ω
VSWR			≤ 1.5:1
	rmodulation or 2x20 W Carriers	dBc	N/A
Upper Sidel	Upper Sidelobe Suppression		N/A
	Intraband	dB	> 25
Isolation	Interband	dB	> 28
Input Power		Watts	100W



50W

Yes

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ELECTRIC	CAL SPECIFICATIONS	LAA Band	O 1
Frequency Range		MHz	(1x) 5150-5925
Polarization	1		(1x) ±45°
<u> </u>	BASTA	dBi	5.0 ± 0.6
Gain	MAX	dBi	5.6
Azimuth Be	eamwidth (3 dB)	degrees	205.7° ± 39.3°
Elevation B	Seamwidth (3 dB)	degrees	22.4° ± 6.1°
Electrical D	owntilt	degrees	(y) 0°
Impedance	•	Ohms	50Ω
VSWR			≤ 1.5:1
	ermodulation for 2x20 W Carriers	dBc	N/A
Upper Side	elobe Suppression	dB	N/A
la alastia a	Intraband	dB	> 25
Isolation	Interband	dB	> 28

MECHANICAL SPECIFICATIONS

Watts

Input Power

U-NII Compliant

anna	Height		mm (in)	1219 (48.0)			
Antenna	Diameter		mm (in)	371 (14.6)			
Net W	Net Weight - Antenna Only			16.4 (36.2)			
\A/'II	Calculation		km/h (mph)	160 (100)			
Windl	oad	Frontal	N (lbf)	391 (88)			
Surviv	Survival Wind Speed		km/h (mph)	241 (150)			
Wind	Wind Area			0.13 (4.7)			
\/-1	Total		m³ (ft³)	0.13 (4.7)			
Volum	ie	Each Antenna	m³ (ft³)	0.065 (2.33)			
		Туре		4.3-10 Female			
Conne	ector	Quantity		12			
		Position		Bottom			
Rador	Radome Color			Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)			
Lightn	ning Protection (Ground	ding Type)		Direct Ground			

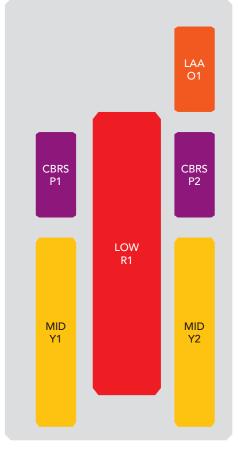


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ARRAY LAYOUT Topology

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FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE					
LOW BAND	OW BAND 696-960		1-2	(2x) 4.3-10 Female					
	1695-2700	■ Y1	3-4	(2x) 4.3-10 Female					
MID BAND	1695-2700	■ Y2	5-6	(2x) 4.3-10 Female					
CBRS BAND	3550-3700	■ P1	7-8	(2x) 4.3-10 Female					
CBR3 BAIND	3550-3700	■ P2	9-10	(2x) 4.3-10 Female					
LAA BAND	5150-5925	O 1	11-12	(2x) 4.3-10 Female					



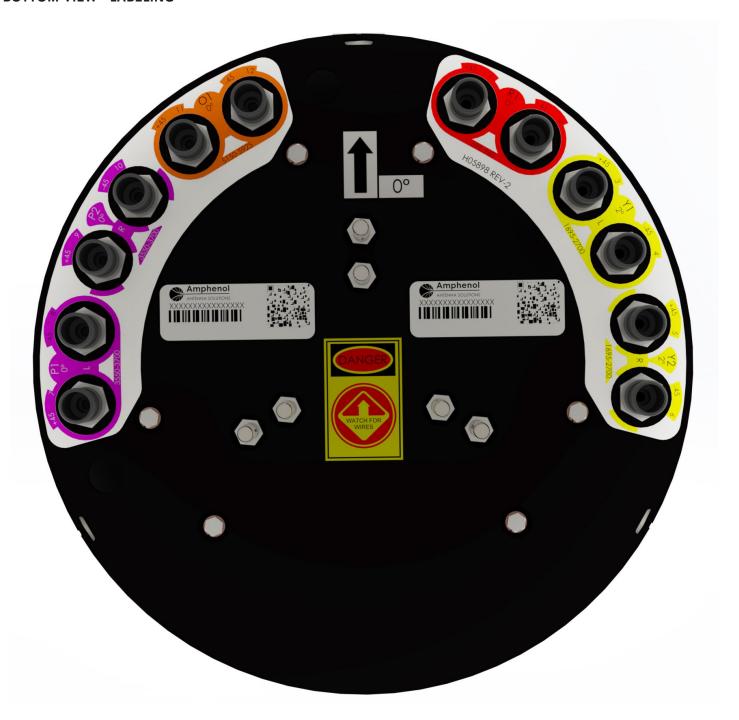
The illustration is not shown to scale.



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BOTTOM VIEW - LABELING

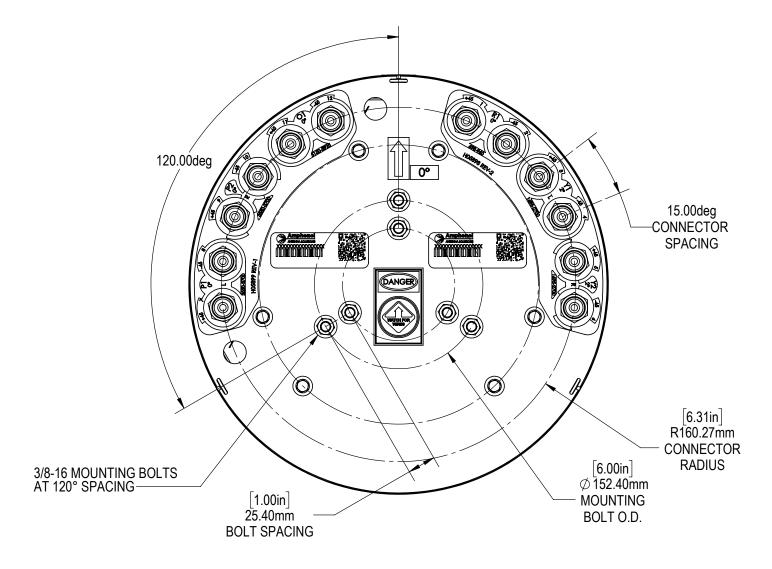




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BOTTOM VIEW - CONNECTOR DIAGRAM



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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MOUNTING KITS Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

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.

	NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
С	2U	3	M	D	120	x	12	F	wxy	S	0	BK BR	
(1x) 696- 960	(2x) 1695- 2700	(2x) 3550- 3700	(1x) 5150- 5925	Dual Sector	~120° Heart- Shape	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.		Original Design	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	SELECT	ORDER				
RADOME COLOR	LOW BAND	MID BAND	CBRS BAND	LAA BAND	MODEL NUMBER	
	0°	2°	O°	0°	C2U3MD120X12F 020 s0	
Grey	0°	6°	0°	0°	C2U3MD120X12F060s0	
Pantone 420 C	5°	2°	0°	0°	C2U3MD120X12F 520 s0	
	5°	6°	0°	0°	C2U3MD120X12F 560 s0	
	0°	2°	0°	0°	C2U3MD120X12F020s0BR	
Brown	0°	6°	0°	0°	C2U3MD120X12F060s0BR	
Pantone 476 C	5°	2°	0°	0°	C2U3MD120X12F 520 s0BR	
	5°	6°	0°	0°	C2U3MD120X12F560s0BR	
	0°	2°	0°	0°	C2U3MD120X12F020s0BK	
Black	0°	6°	0°	0°	C2U3MD120X12F060s0BK	
RAL 9011	5°	2°	0°	0°	C2U3MD120X12F 520 s0 BK	
	5°	6°	0°	0°	C2U3MD120X12F560s0BK	

Azimuth

12-Port Canister Antenna

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

Azimuth

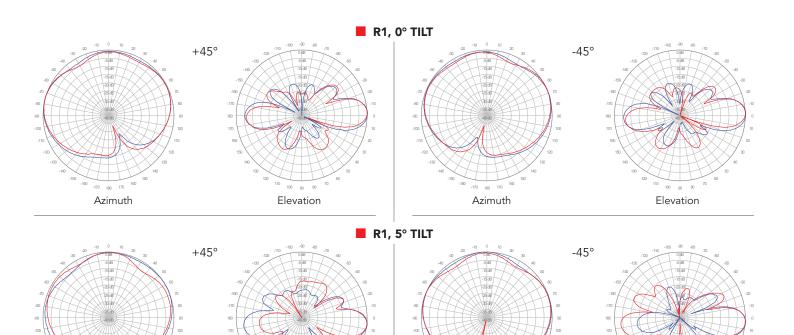
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Elevation

750 MHz

850 MHz -

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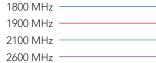
Elevation

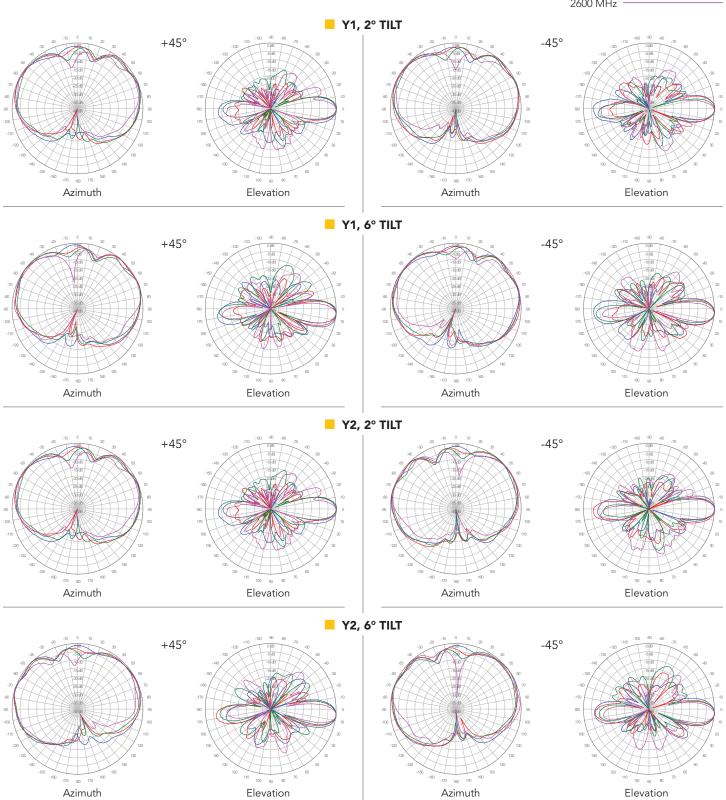
12-Port Canister Antenna

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

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