18-Port Canister Antenna with GPS

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

OMNI | 24 IN | FIXED TILT

2C4U3MT360X06Fxys0-GPS

Features

- 4G/5G Pseudo Omni configuration with 18 connectors
- Integrated GPS unit with its own port
- Ideal for Small Cell / DAS applications
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW						
Frequency Range (MHz)	GPS BAND	LOW BAND	MID BAND		CBRS BAND	LAA BAND
	1575.42 MHz ± 10 MHz	(2x) 696-960	(4x) 1695-2700		(2x) 3550-3700	(1x) 5150-5925
Array	---	R1 R2	Y1 Y2 Y3 Y4		P1 P2	O1
Connector	1 PORT	4 PORTS	8 PORTS		4 PORTS	2 PORTS
Polarization	RIGHT HAND CIRCULAR	XPOL	XPOL		XPOL	XPOL
Azimuth Beamwidth (avg)	---	360°	360°		360°	360°
Electrical Downtilt	---	0°	2°, 4°, 6°		0°	0°
Configuration	OMNI CONFIGURATION WITH INTEGRATED GPS UNIT					
Connector Type	(18x) 4.3-10 FEMALE and (1x) 4.3-10 FEMALE FOR GPS					
Dimensions	610 x Ø371 mm (24.0 x Ø14.6 in)					
Radome Color Options	GREY, BROWN or BLACK					

ELECTRICAL SPECIFICATIONS Low Band			■ **R1**	■ **R2**
Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.2 ± 0.9	3.9 ± 0.7
	MAX	dBi	5.1	4.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	96.9° ± 26.7°	72.0° ± 21.7°
Electrical Downtilt		degrees	(x) 0°	
Impedance		Ohms	50Ω	
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	
Input Power		Watts	500W	

DISCONTINUED

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2C4U3MT360X06Fxys0-GPS

DISCONTINUED

ELECTRICAL 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		---	(4x) ±45°			
Gain	BASTA	dBi	7.0 ± 0.6	7.3 ± 0.9	7.0 ± 0.9	7.2 ± 0.8
	MAX	dBi	7.6	8.2	7.9	8.0
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	35.2° ± 8.7°	31.6° ± 7.1°	32.0° ± 18.9°	25.0° ± 7.0°
Electrical Downtilt		degrees	(y) 2°, 4°, 6°			
Impedance		Ohms	50Ω			
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			
Input Power		Watts	300W			

ELECTRICAL SPECIFICATIONS CBRS Band

■ P1 ■ P2

Frequency Range		MHz	(2x) 3550-3700
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.7 ± 1.1
	MAX	dBi	6.8
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	32.0° ± 7.6°
Electrical Downtilt		degrees	0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	N/A
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power		Watts	100W

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DISCONTINUED

ELECTRICAL SPECIFICATIONS LAA Band			■ **O1**
Frequency Range		MHz	(1x) 5150-5925
Polarization		---	(1x) ±45°
Gain	BASTA	dBi	5.0 ± 1.1
	MAX	dBi	6.1
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	20.8° ± 2.2°
Electrical Downtilt		degrees	0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	Meets FCC requirements upper pattern control for use in LAA outdoor network
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power		Watts	50W
U-NII Compliant		---	Yes

GPS UNIT Integrated	
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	4.3-10 Female

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MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	610 (24.0)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	11.3 (25.0)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	191 (43)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.22 (2.4)
Volume			m^3 (ft^3)	0.07 (2.3)
Connector		Type & Quantity	---	(18x) 4.3-10 Female and (1x) 4.3-10 Female for GPS
		Position	---	Bottom
Radome Color			---	Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)
Lightning Protection (Grounding Type)			---	Direct Ground

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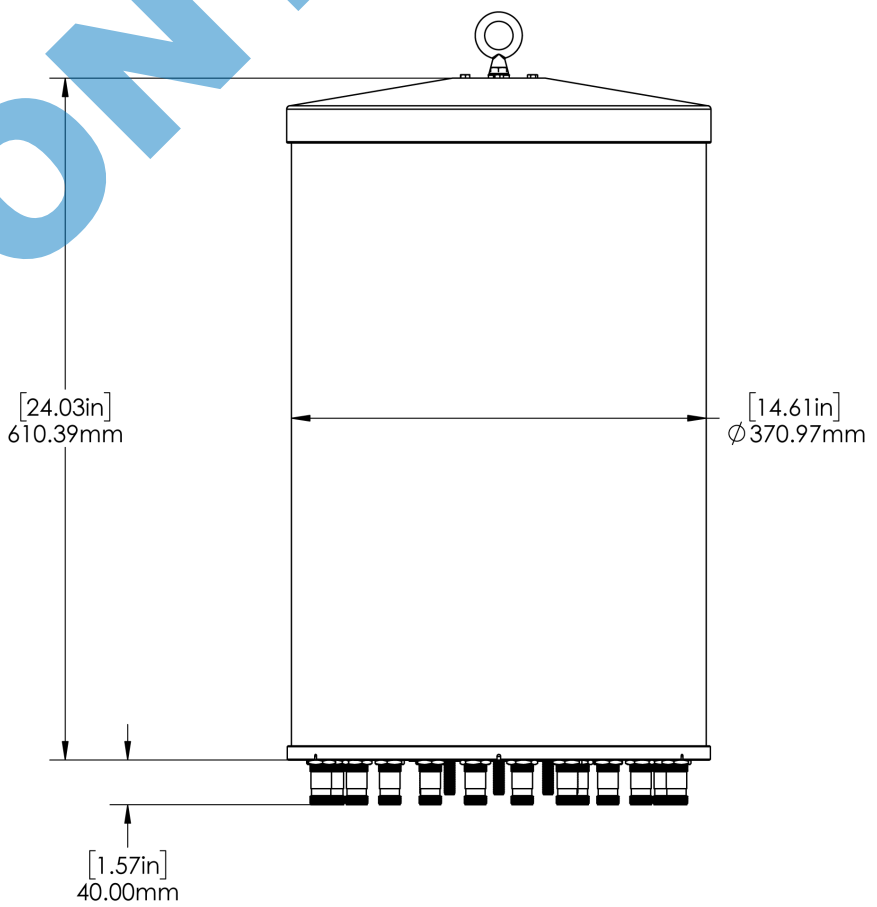

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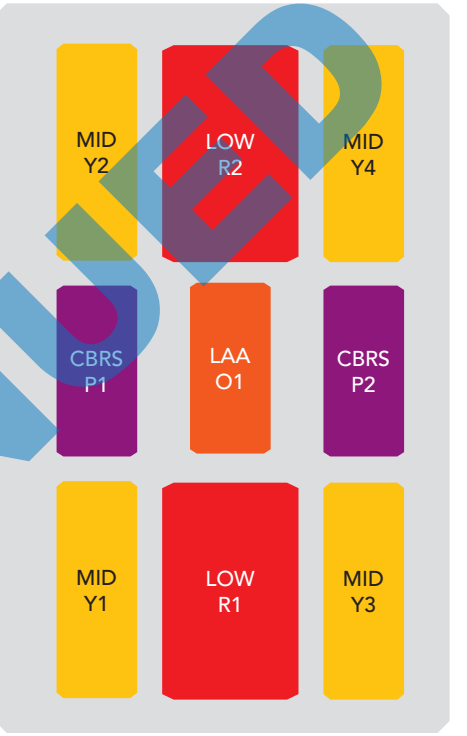
ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
LOW BAND	696-960	R1	1-2	(2x) 4.3-10 Female
	696-960	R2	3-4	(2x) 4.3-10 Female
MID BAND	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
CBRS BAND	3550-3700	P1	13-14	(2x) 4.3-10 Female
	3550-3700	P2	15-16	(2x) 4.3-10 Female
LAA BAND	5150-5925	O1	17-18	(2x) 4.3-10 Female
GPS BAND	1575.42 MHz ± 10 MHz	---	19	(1x) 4.310 Female



The illustration is not shown to scale.

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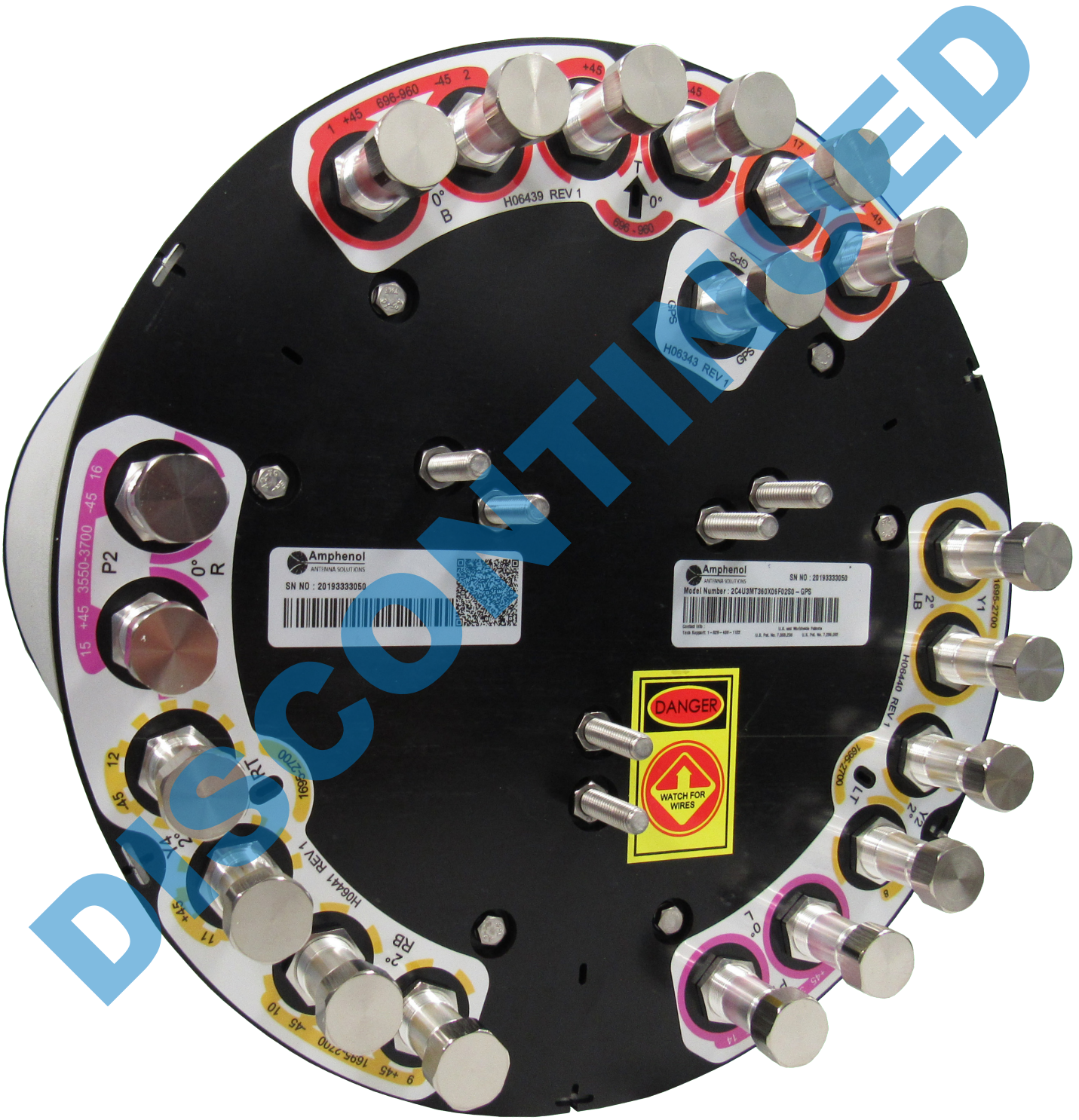
BOTTOM VIEW - LABELING



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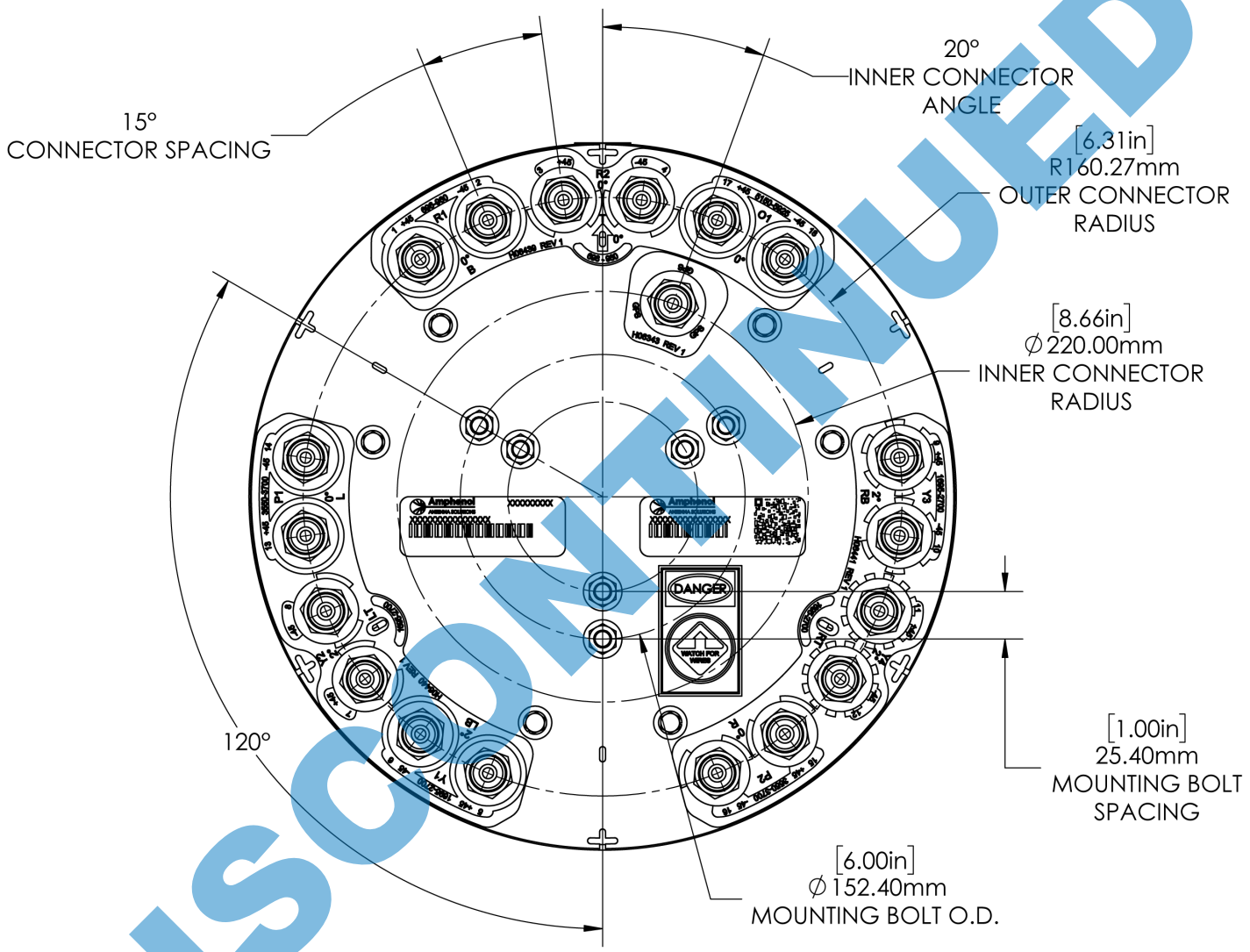
BOTTOM VIEW - CONNECTOR DIAGRAM



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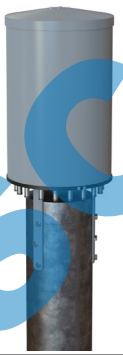
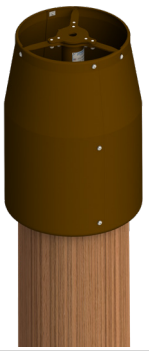
MOUNTING KITS Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

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.

DISCONTINUED

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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	GPS
2C	4U	3M		T	360	X	06	F	xy	s	0	BK BR	-GPS
(2x) 696-960	(4x) 1695-2700	(2x) 3550-3700	(1x) 5150-5925	Tri-Sector	360°	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	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.	Indicates an integrated GPS unit

ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	LOW BAND	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	0°	2°	0°	0°	2C4U3MT360X06F02s0-GPS
	0°	4°	0°	0°	2C4U3MT360X06F04s0-GPS
	0°	6°	0°	0°	2C4U3MT360X06F06s0-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAs0-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBs0-GPS
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCs0-GPS
Brown Pantone 476 C	0°	2°	0°	0°	2C4U3MT360X06F02s0BR-GPS
	0°	4°	0°	0°	2C4U3MT360X06F04s0BR-GPS
	0°	6°	0°	0°	2C4U3MT360X06F06s0BR-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAs0BR-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBs0BR-GPS
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCs0BR-GPS
Black RAL 9011	0°	2°	0°	0°	2C4U3MT360X06F02s0BK-GPS
	0°	4°	0°	0°	2C4U3MT360X06F04s0BK-GPS
	0°	6°	0°	0°	2C4U3MT360X06F06s0BK-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAs0BK-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBs0BK-GPS
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCs0BK-GPS

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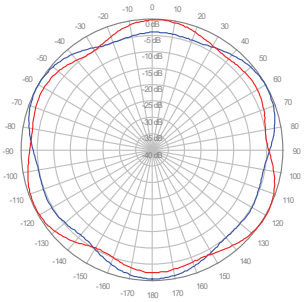
2C4U3MT360X06Fxys0-GPS

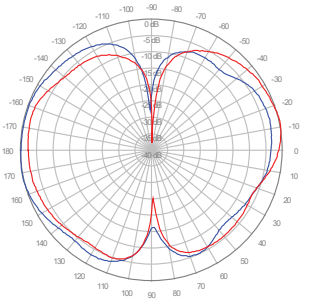
750 MHz
850 MHz

R1, 0° TILT

+45°

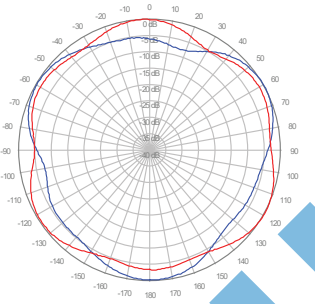


Azimuth



Elevation

-45°



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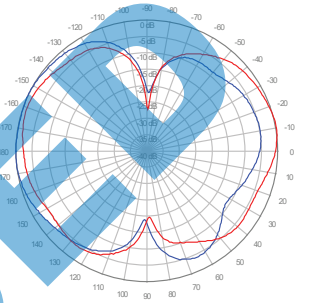
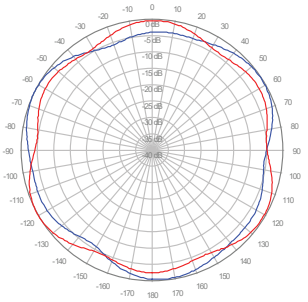


Elevation

R2, 0° TILT

+45°



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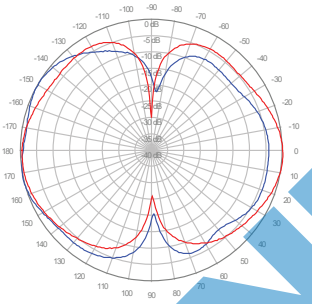
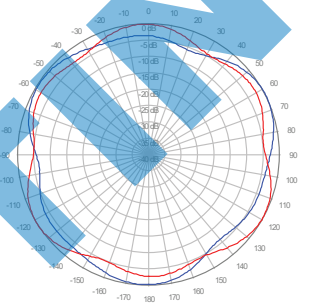


Elevation

-45°



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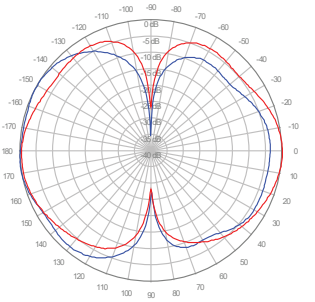

Elevation

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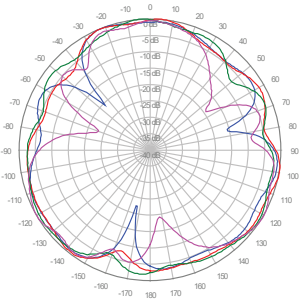
2C4U3MT360X06Fxys0-GPS

1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 2° TILT

+45°



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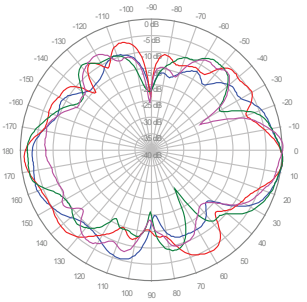
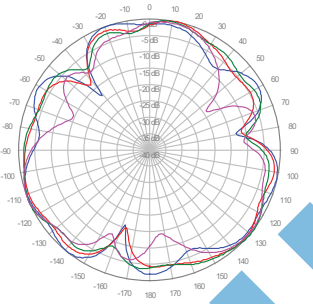
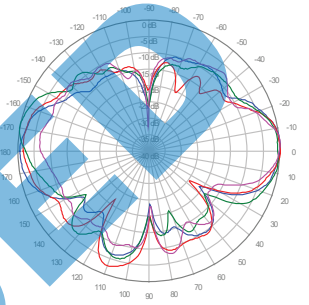


Elevation

-45°



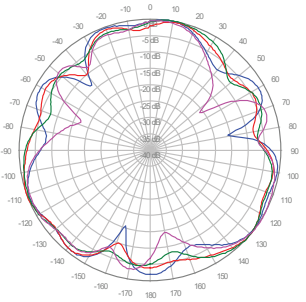
Azimuth



Elevation

Y2, 2° TILT

+45°



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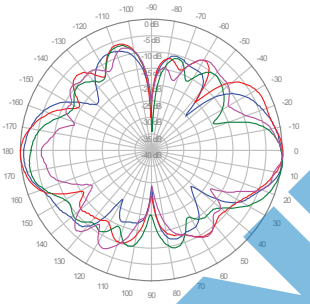
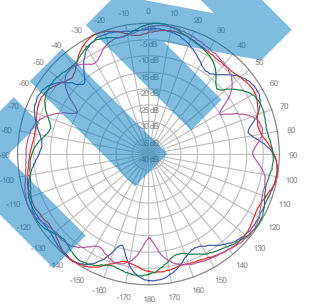


Elevation

-45°



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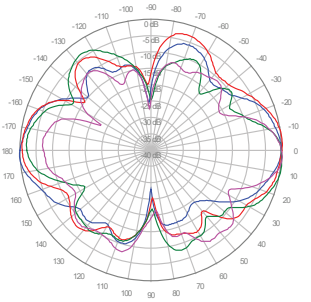
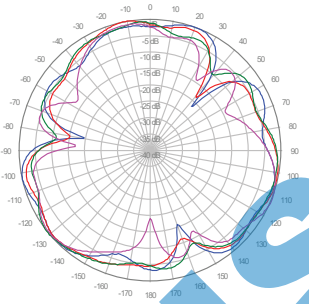


Elevation

Y3, 2° TILT

+45°



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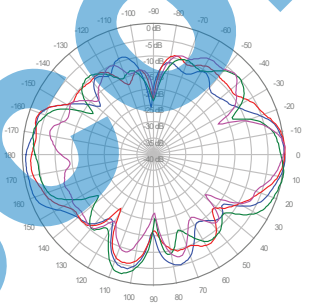
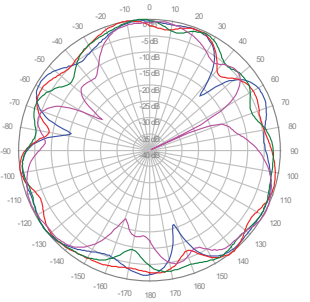
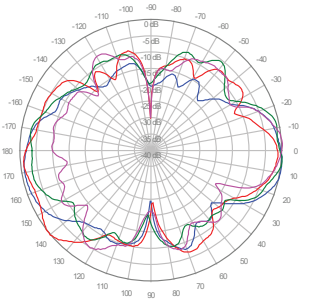


Elevation

-45°



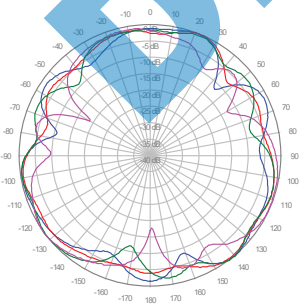
Azimuth



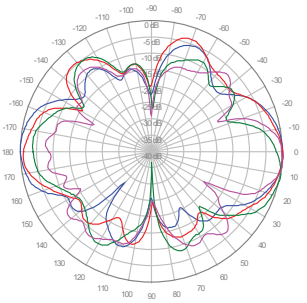
Elevation

Y4, 2° TILT

+45°

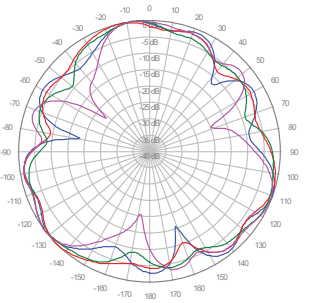


Azimuth

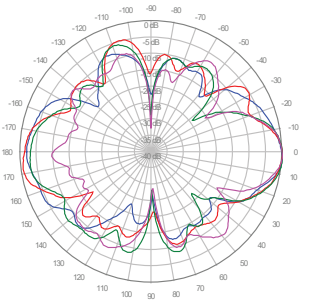


Elevation

-45°



Azimuth



Elevation

DISCONTINUED

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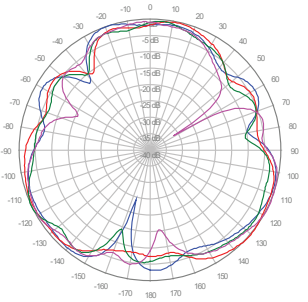
2C4U3MT360X06Fxys0-GPS

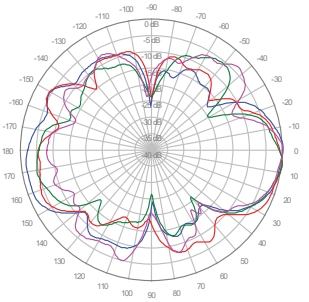
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 4° TILT

+45°

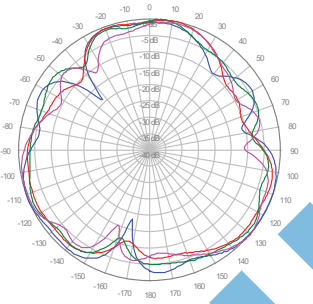


Azimuth

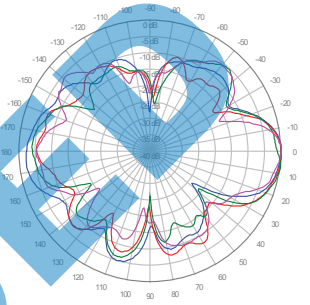


Elevation

-45°



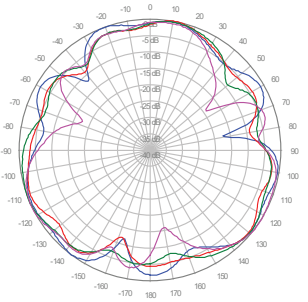
Azimuth



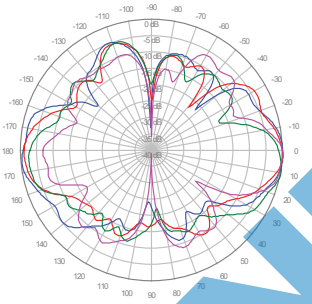
Elevation

Y2, 4° TILT

+45°

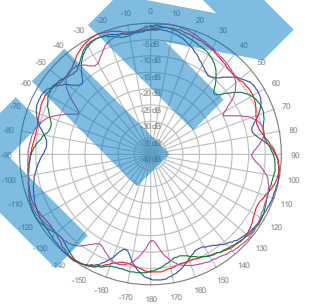


Azimuth

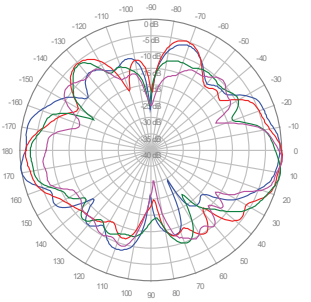


Elevation

-45°



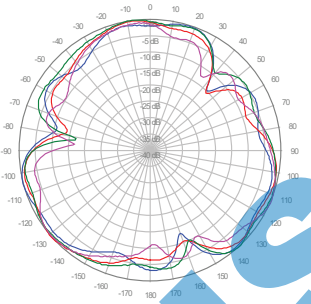
Azimuth



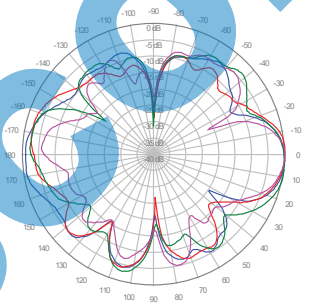
Elevation

Y3, 4° TILT

+45°

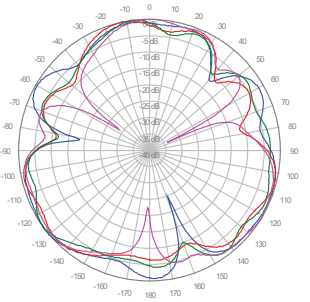


Azimuth

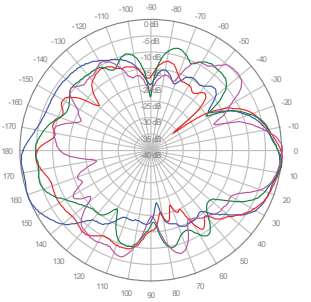


Elevation

-45°



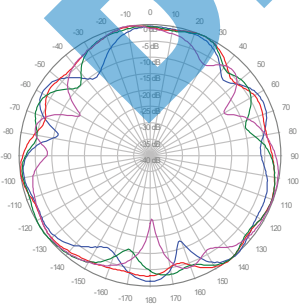
Azimuth



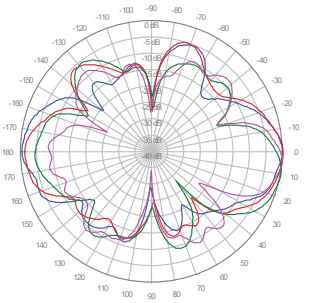
Elevation

Y4, 4° TILT

+45°

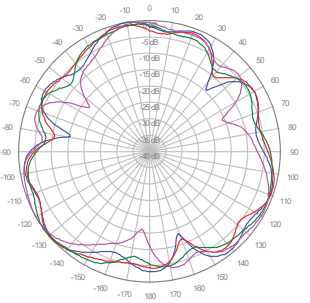


Azimuth

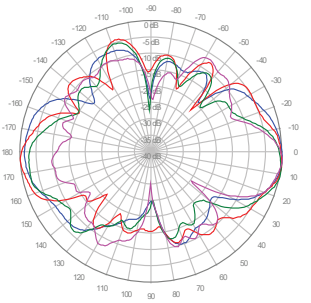


Elevation

-45°



Azimuth



Elevation

DISCONTINUED

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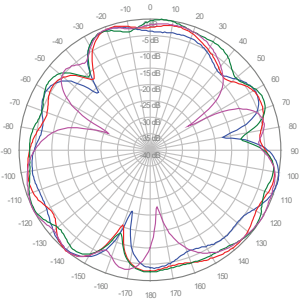
2C4U3MT360X06Fxys0-GPS

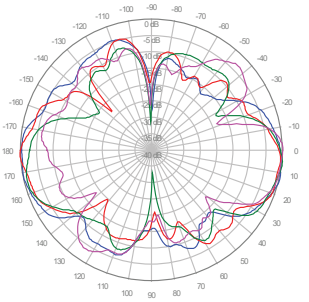
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 6° TILT

+45°

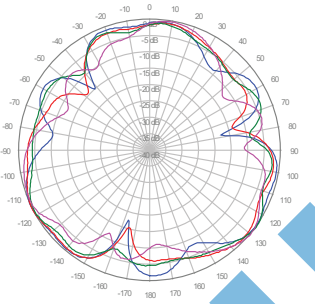


Azimuth

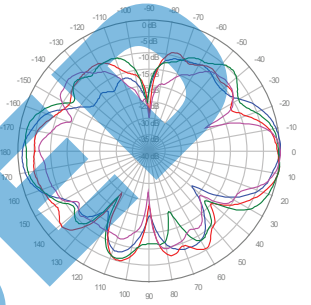


Elevation

-45°



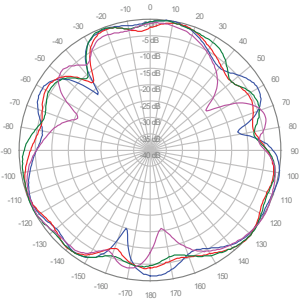
Azimuth



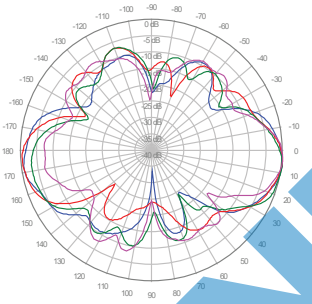
Elevation

Y2, 6° TILT

+45°

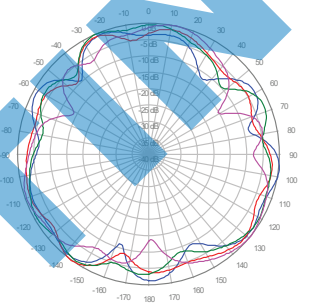


Azimuth

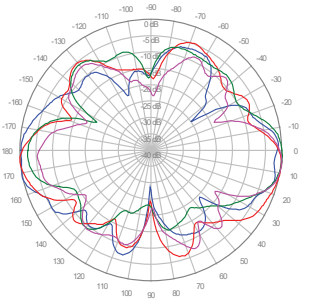


Elevation

-45°



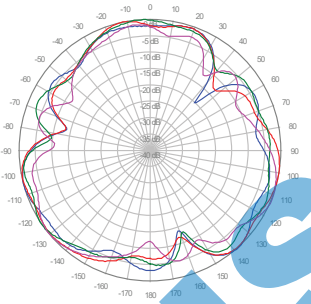
Azimuth



Elevation

Y3, 6° TILT

+45°



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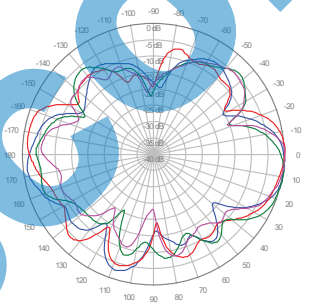
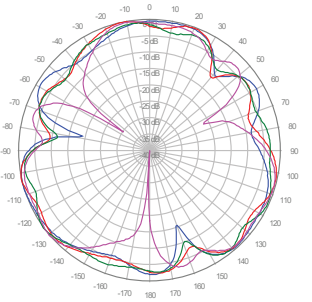
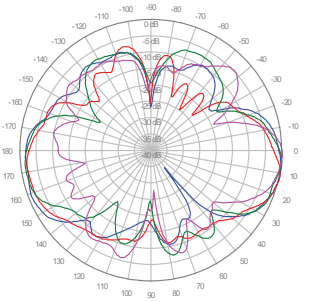


Elevation

-45°



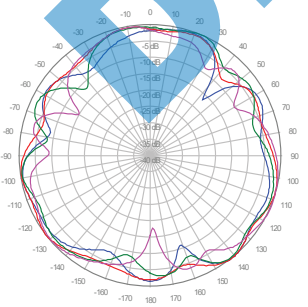
Azimuth



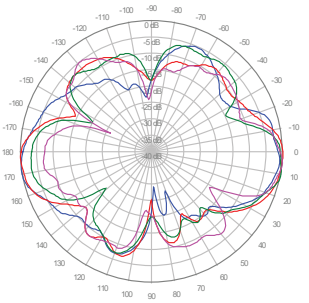
Elevation

Y4, 6° TILT

+45°

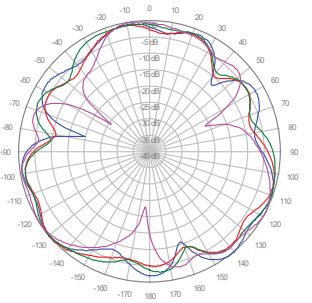


Azimuth

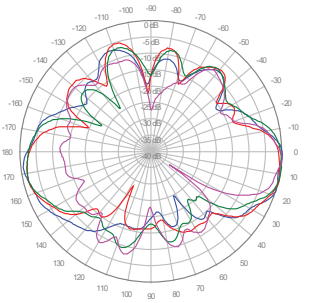


Elevation

-45°



Azimuth



Elevation

DISCONTINUED

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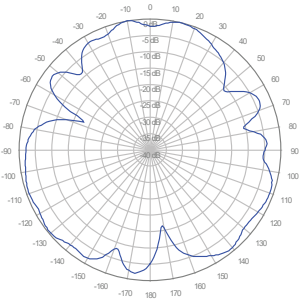
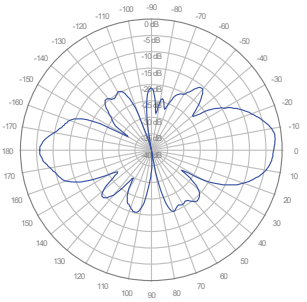
2C4U3MT360X06Fxys0-GPS

P1, 0° TILT

+45°

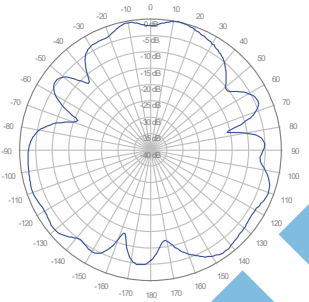


Azimuth (3600 MHz)

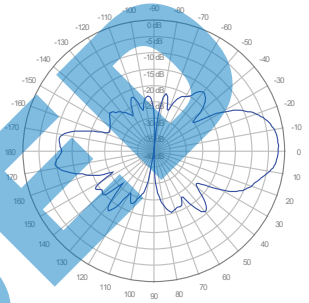


Elevation (3600 MHz)

-45°



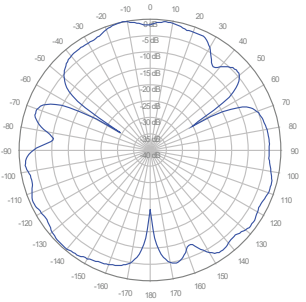
Azimuth (3600 MHz)



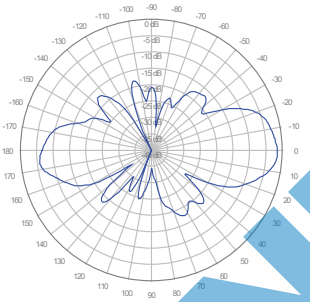
Elevation (3600 MHz)

P2, 0° TILT

+45°

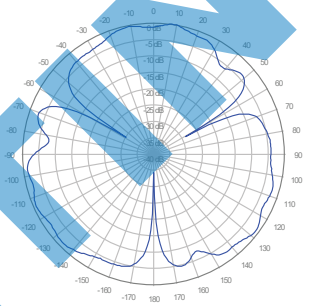


Azimuth (3600 MHz)

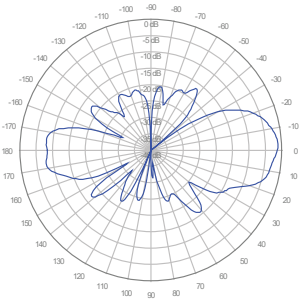


Elevation (3600 MHz)

-45°



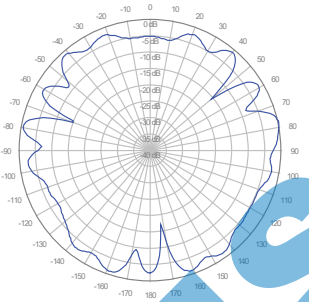
Azimuth (3600 MHz)



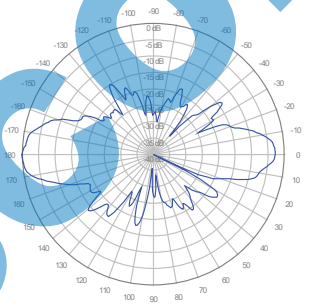
Elevation (3600 MHz)

O1, 0° TILT

+45°

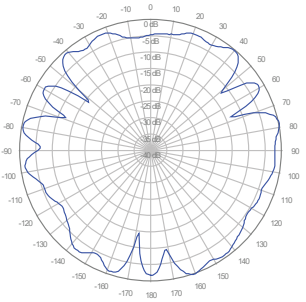


Azimuth (5600 MHz)

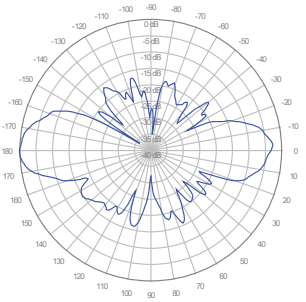


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)

DISCONTINUED

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