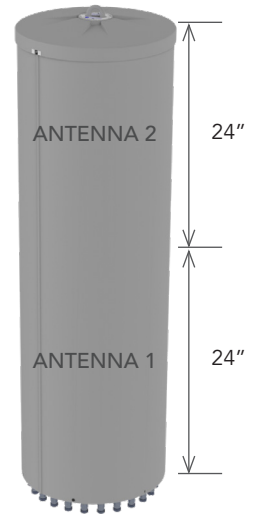


6U4MT360X12F_{xy}s4-GPS

Features

- 4G/5G pseudo omni configuration with 20 connectors and a separate port for an integrated GPS unit
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- New, enhanced mechanical and antenna design
 - Easily removable lifting ring
 - Extended CBRS Band
 - Improvements in gain, port isolation and VSWR
- 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	MID	CBRS	LAA
		1575.42± 10 MHz	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925
	Array	---	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2	■ O1 ■ O2
	Connector	1 PORT	12 PORTS	4 PORTS	4 PORTS
	Polarization	RIGHT HAND CIRCULAR	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	---	360°	360°	360°
	Electrical Downtilt	---	2°, 4°, 6°	0°	0°
	Configuration	OMNI CONFIGURATION WITH INTEGRATED GPS UNIT			
	Connector Type	(20x) 4.3-10 FEMALE CONNECTORS and (1x) N-TYPE FEMALE CONNECTOR FOR GPS			
	Dimensions	1205 x Ø371 mm (47.4 x Ø14.6 in)			
Radome Color Options	GREY, BROWN or BLACK				

ELECTRICAL SPECIFICATIONS Mid Band

■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6

Frequency Range	MHz	(6x) 1695-2700				
Frequency Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700	
Polarization	---	(6x) ±45°				
Gain	BASTA	dBi	8.8 ± 0.7	9.0 ± 0.5	9.2 ± 0.6	9.6 ± 0.7
	MAX	dBi	9.5	9.5	9.8	10.3
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	21.0° ± 2.6°	19.5° ± 2.1°	18.6° ± 2.2°	16.8° ± 22.6°	
Electrical Downtilt	degrees	(x) 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	N/A	N/A	N/A	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			
Input Power	Watts	300W				

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6U4MT360X12F_{xy}s4-GPS

ELECTRICAL SPECIFICATIONS CBRS Band

■ P1 ■ P2

Frequency Range	MHz	(2x) 3300-4200	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	5.8 ± 0.7
	MAX	dBi	6.5
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	27.8° ± 3.4°	
Electrical Downtilt	degrees	(y) 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	

ELECTRICAL SPECIFICATIONS LAA Band

■ O1 ■ O2

Frequency Range	MHz	(2x) 5150-5925	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	4.6 ± 1.0
	MAX	dBi	5.6
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	21.2° ± 3.8°	
Electrical Downtilt	degrees	(y) 0°	
Impedance	Ohms	50Ω	
VSWR	---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	N/A	
Upper Sidelobe Suppression	dB	> 11	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power	Watts	50W	
U-NII Compliant	---	Yes	

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6U4MT360X12F_{xy}s4-GPS

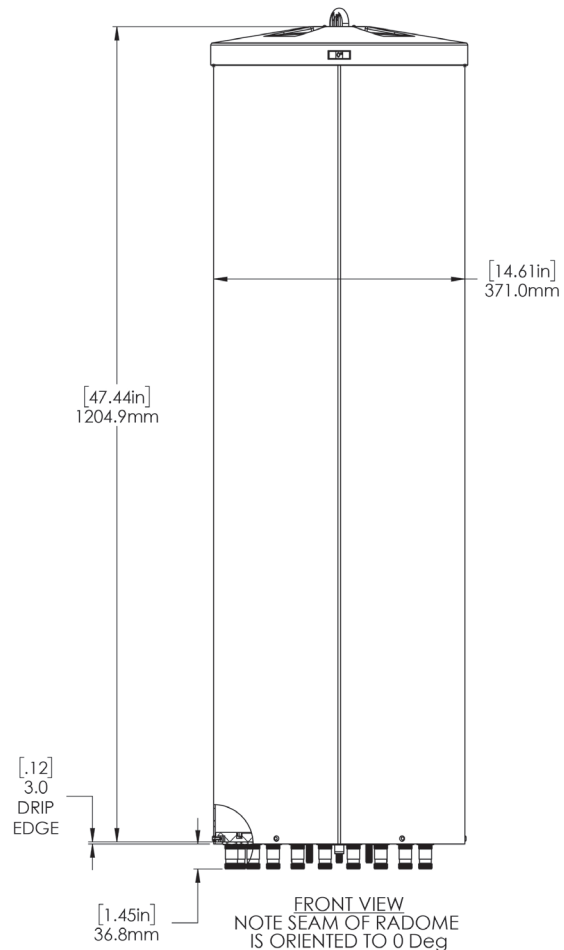
GPS UNIT Integrated

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	N-Type Female

6U4MT360X12F_{xy}s4-GPS

MECHANICAL SPECIFICATIONS

Height	mm (in)	1205 (47.4)	
Diameter	mm (in)	371 (14.6)	
Net Weight - Antenna Only	kg (lbs)	19.1 (42.0)	
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed	km/h (mph)	241 (150)	
Wind Area	m ² (ft ²)	0.47 (5.0)	
Volume	Total	m ³ (ft ³)	0.13 (4.7)
	Each Antenna	m ³ (ft ³)	0.065 (2.33)
Connector	Type & Quantity	--- (20x) 4.3-10 Female and (1x) N-Type Female for GPS	
	Position	--- Bottom	
Radome Color	---	Grey (Pantone 420 C) Brown (Pantone 476 C) Black (RAL 9011)	
Lightning Protection (Grounding Type)	---	Direct Ground	

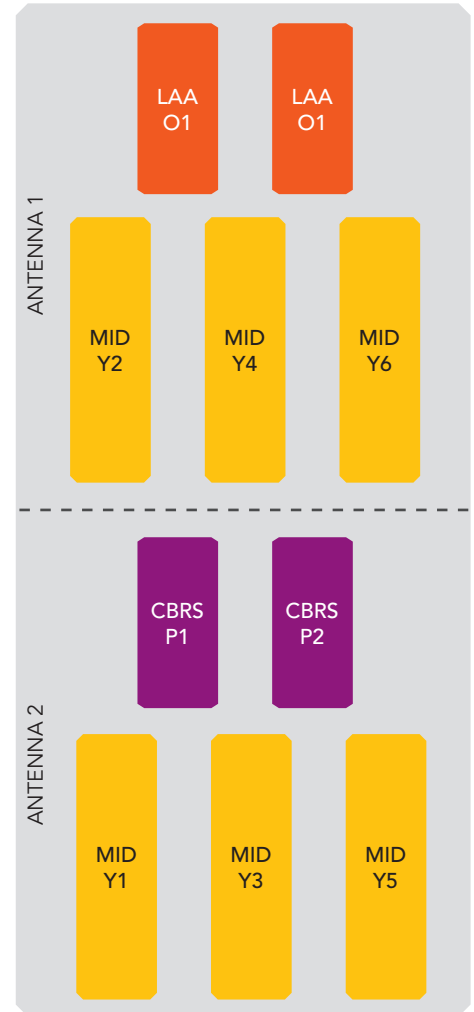


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6U4MT360X12F_{xy}s4-GPS

ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
MID BAND	1695-2700	Y1	1-2 (2x) 4.3-10 Female
	1695-2700	Y2	3-4 (2x) 4.3-10 Female
	1695-2700	Y3	5-6 (2x) 4.3-10 Female
	1695-2700	Y4	7-8 (2x) 4.3-10 Female
	1695-2700	Y5	9-10 (2x) 4.3-10 Female
	1695-2700	Y6	11-12 (2x) 4.3-10 Female
CBRS BAND	3300-4200	P1	13-14 (2x) 4.3-10 Female
	3300-4200	P2	15-16 (2x) 4.3-10 Female
LAA BAND	5150-5925	O1	17-18 (2x) 4.3-10 Female
	5150-5925	O2	19-20 (2x) 4.310 Female
GPS BAND	1575.42	---	21 (1x) N-Type Female

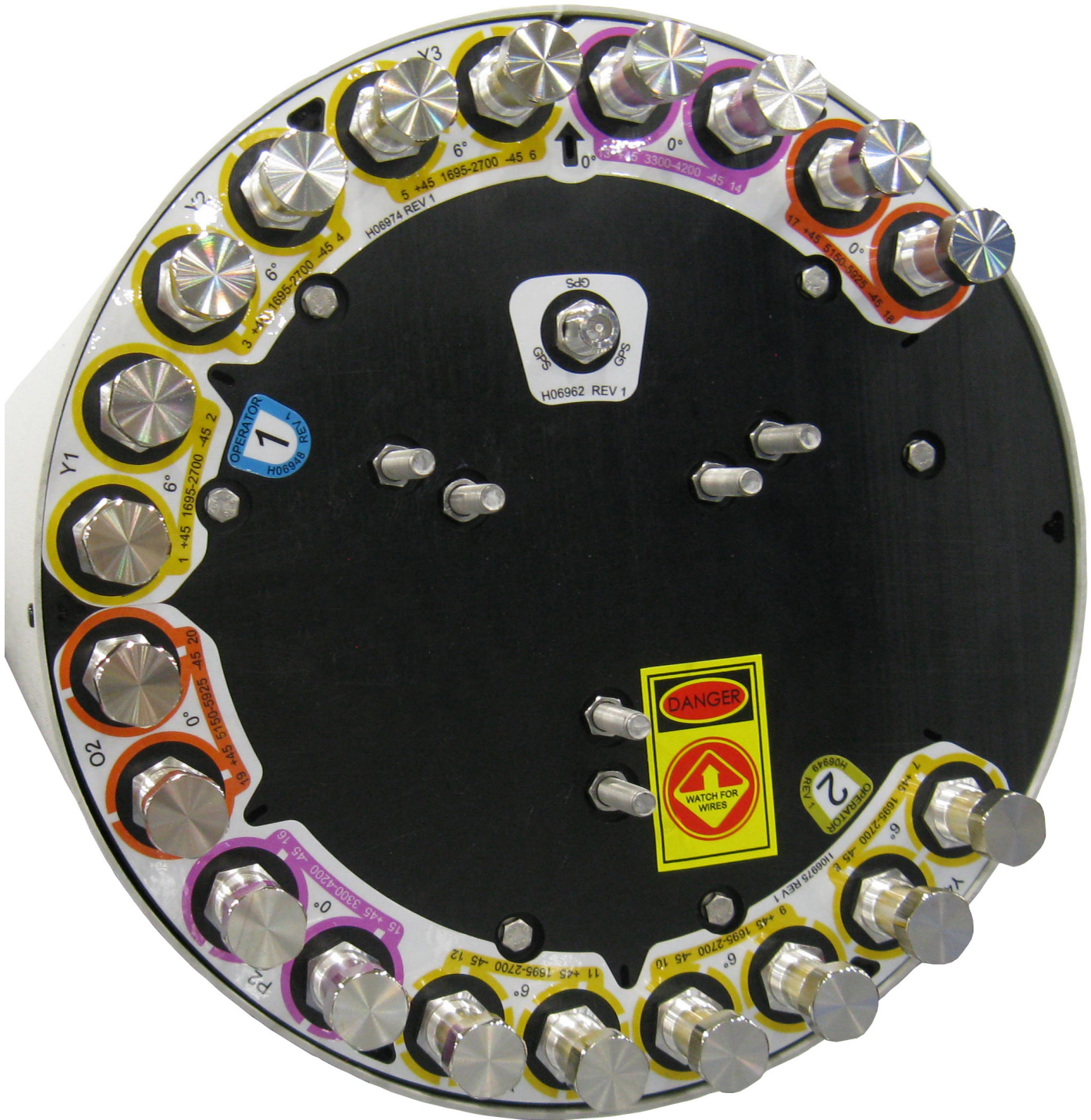


The illustration is not shown to scale.

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6U4MT360X12F_{xy}s4-GPS

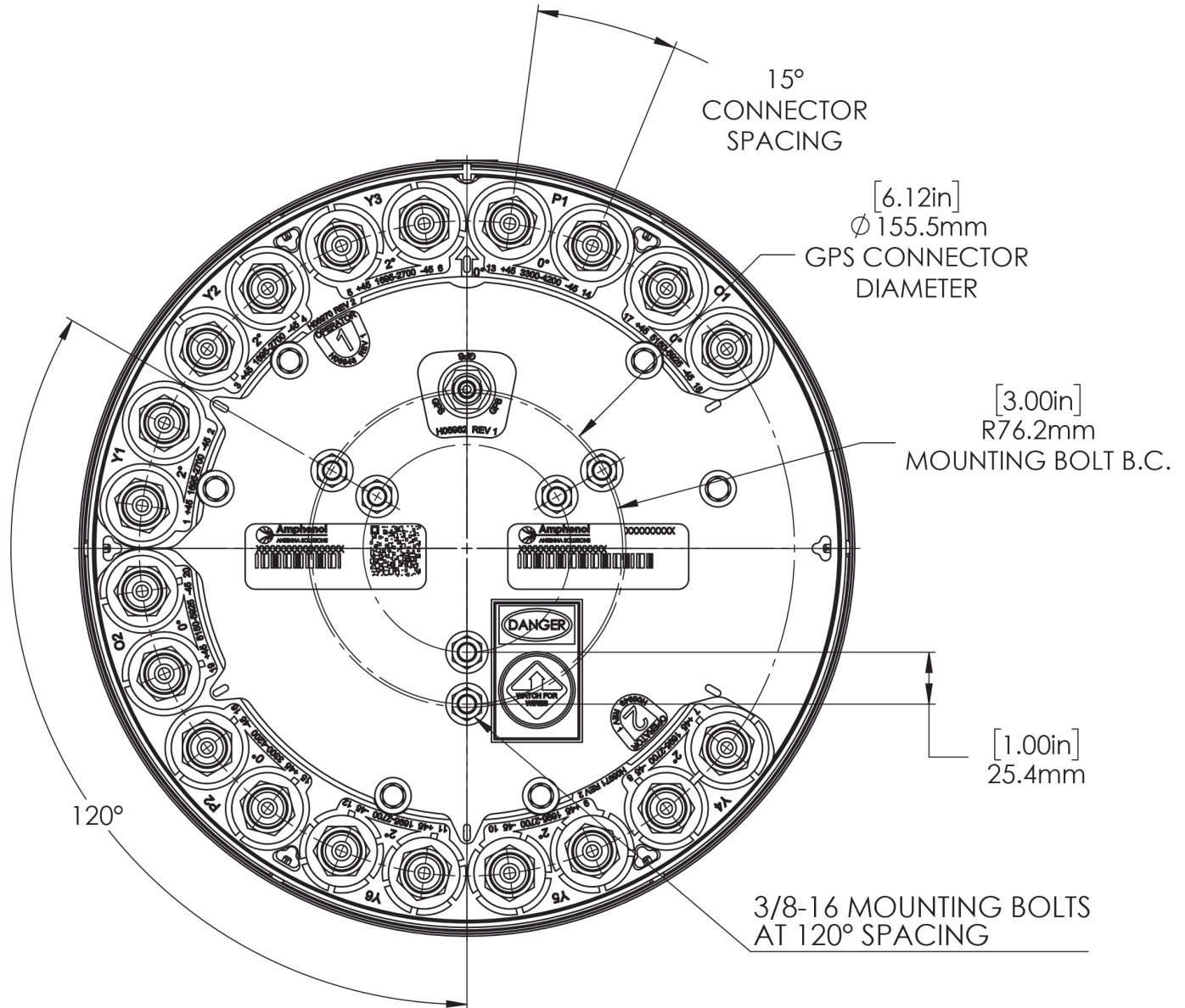
BOTTOM VIEW - LABELING



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6U4MT360X12FxyS4-GPS

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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6U4MT360X12F_{xy}s4-GPS

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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6U4MT360X12F xy s4-GPS

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

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS	
6U			4M	T	360	X	12	F	xy	s	4	BK BR	-GPS
(6x) 1695- 2700	(2x) 3300- 4200	(2x) 5150- 5925	Tri-Sector	360°	XPOL	1.2 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.	Indicates an inte- grated GPS unit	

ORDERING OPTIONS Select from the following ordering options

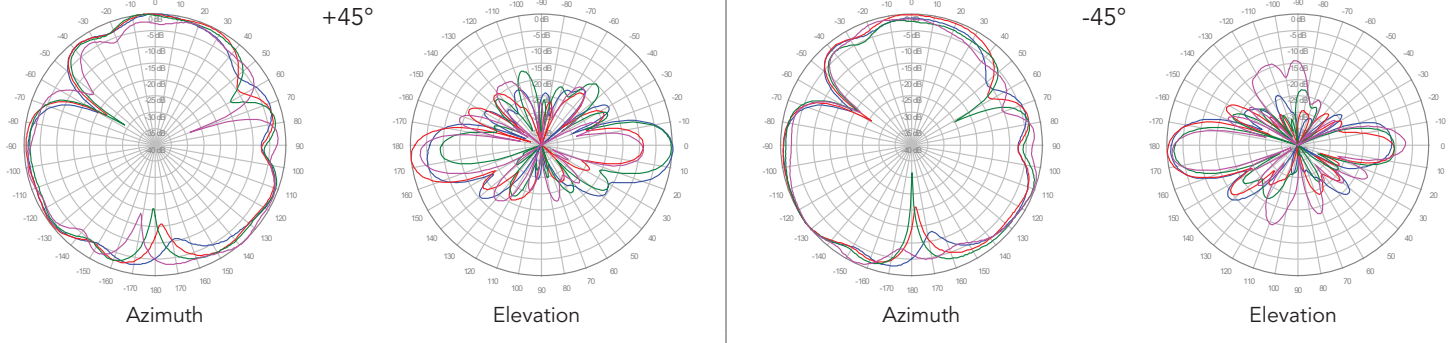
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	2°	0°	0°	6U4MT360X12F20s4-GPS
	4°	0°	0°	6U4MT360X12F40s4-GPS
	6°	0°	0°	6U4MT360X12F60s4-GPS
Brown Pantone 476 C	2°	0°	0°	6U4MT360X12F20s4BR-GPS
	4°	0°	0°	6U4MT360X12F40s4BR-GPS
	6°	0°	0°	6U4MT360X12F60s4BR-GPS
Black RAL 9011	2°	0°	0°	6U4MT360X12F20s4BK-GPS
	4°	0°	0°	6U4MT360X12F40s4BK-GPS
	6°	0°	0°	6U4MT360X12F60s4BK-GPS

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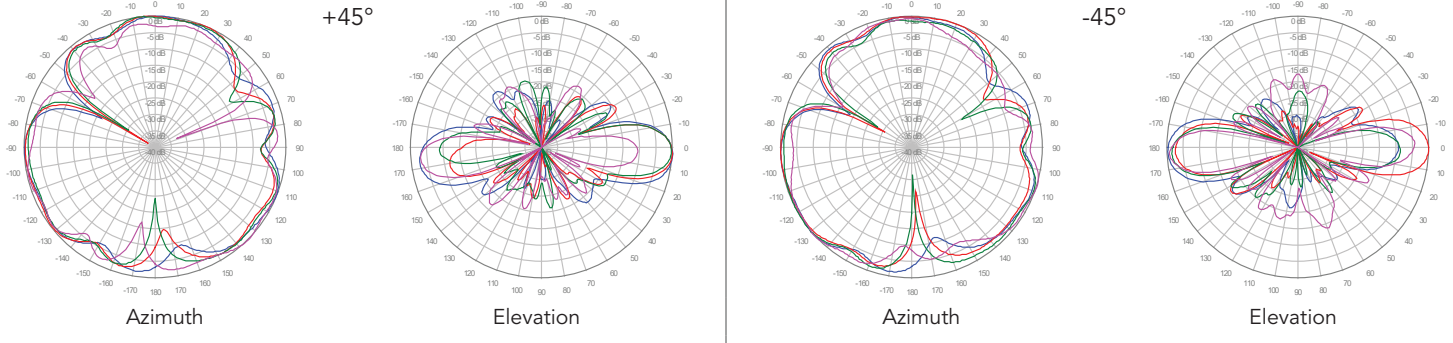
6U4MT360X12F_{xy}s4-GPS

1800 MHz ————
1900 MHz ————
2100 MHz ————
2600 MHz ————

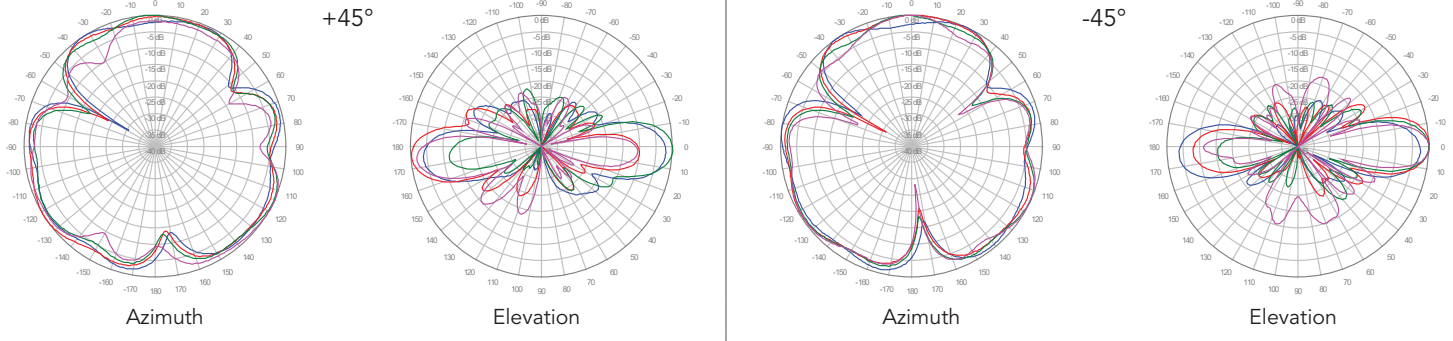
Y1, 2° TILT



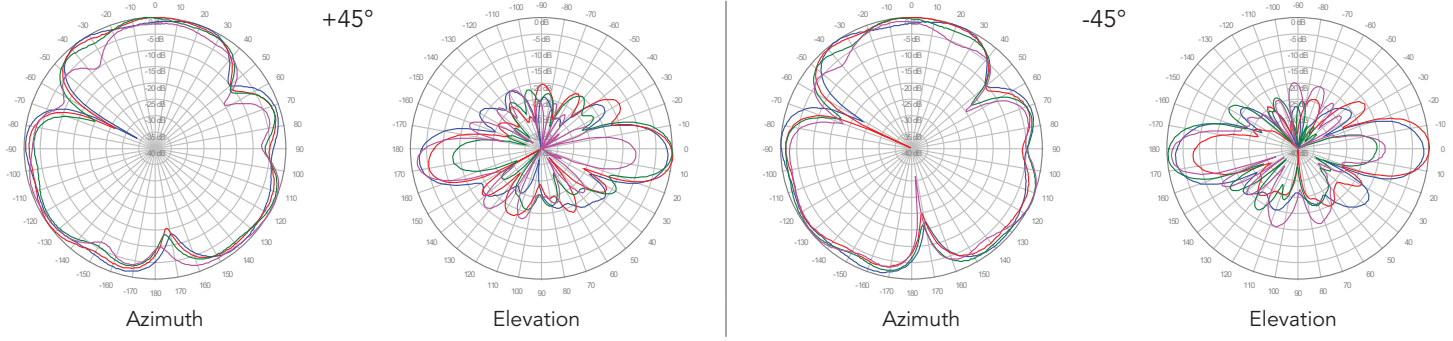
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

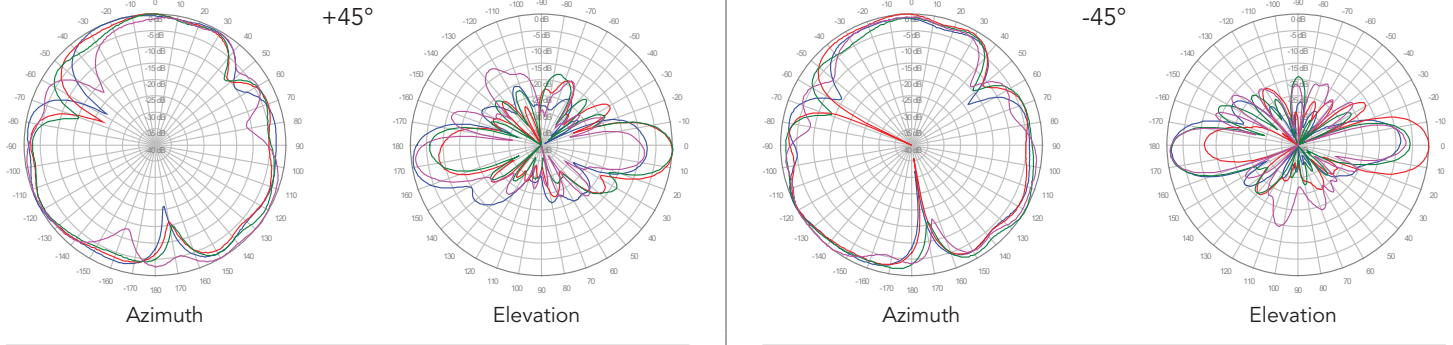


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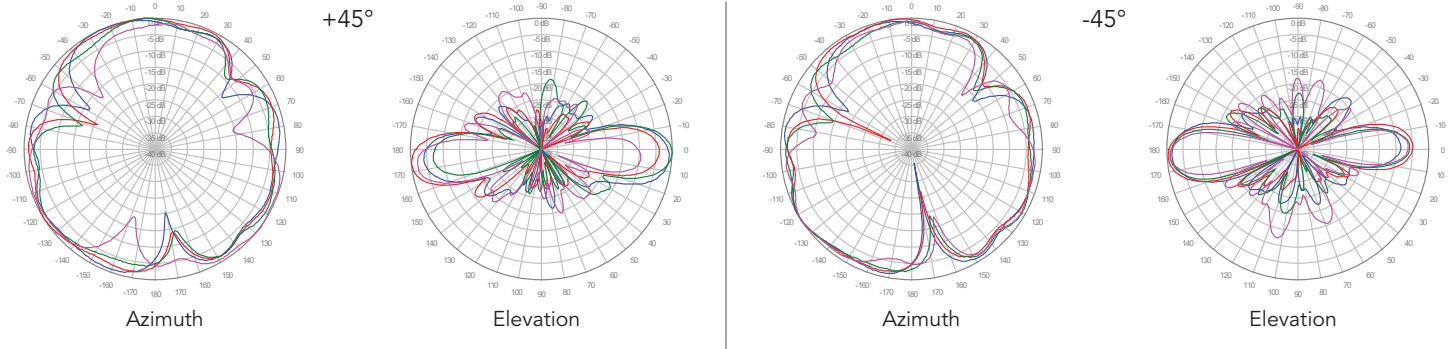
6U4MT360X12F_{xy}s4-GPS

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2600 MHz ———

Y5, 2° TILT



Y6, 2° TILT

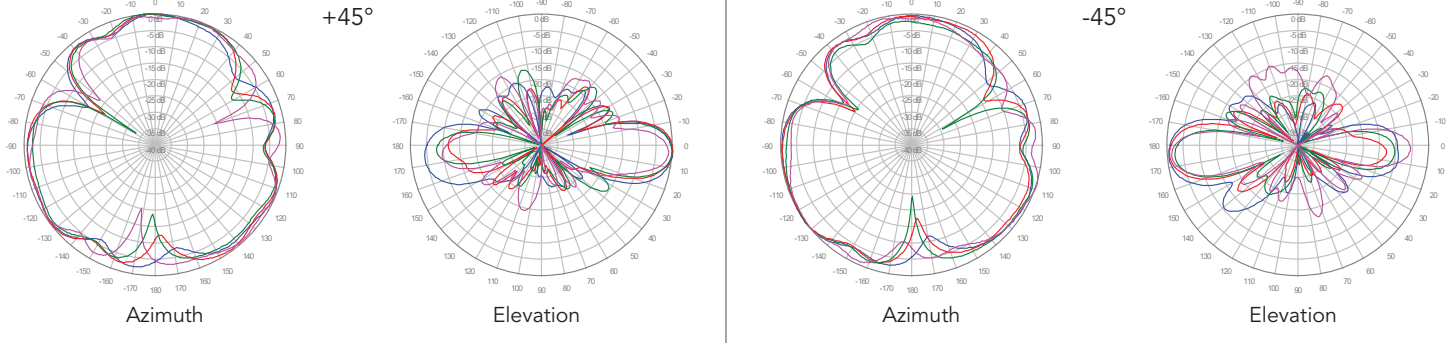


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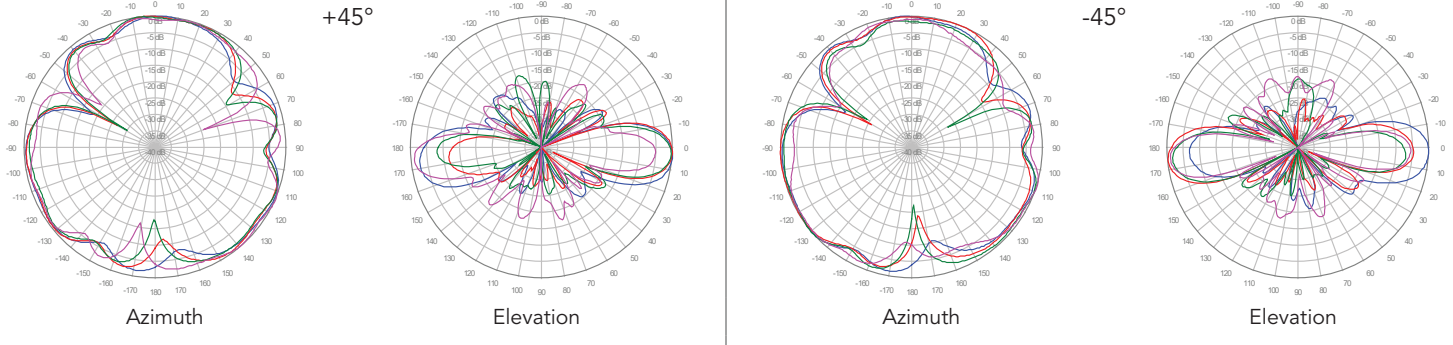
6U4MT360X12F_{xy}s4-GPS

1800 MHz ———
 1900 MHz ———
 2100 MHz ———
 2600 MHz ———

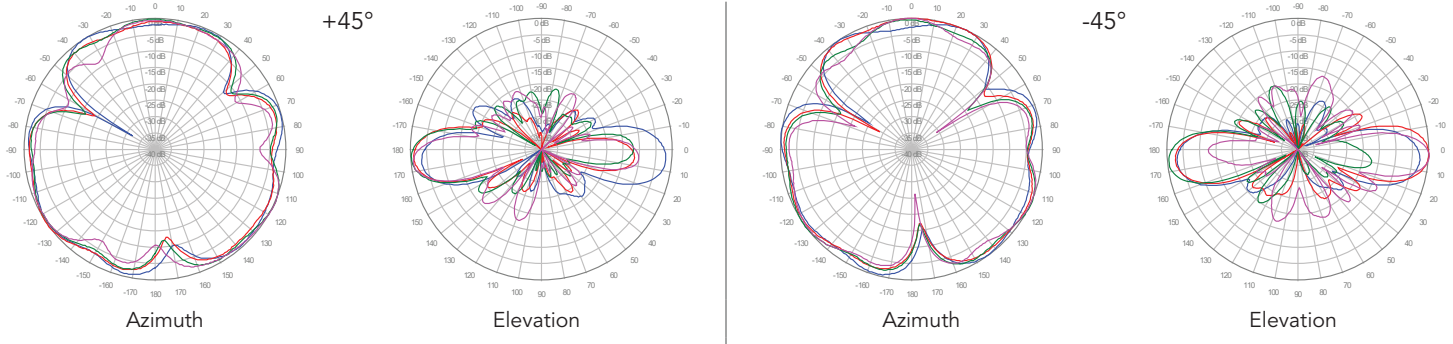
Y1, 4° TILT



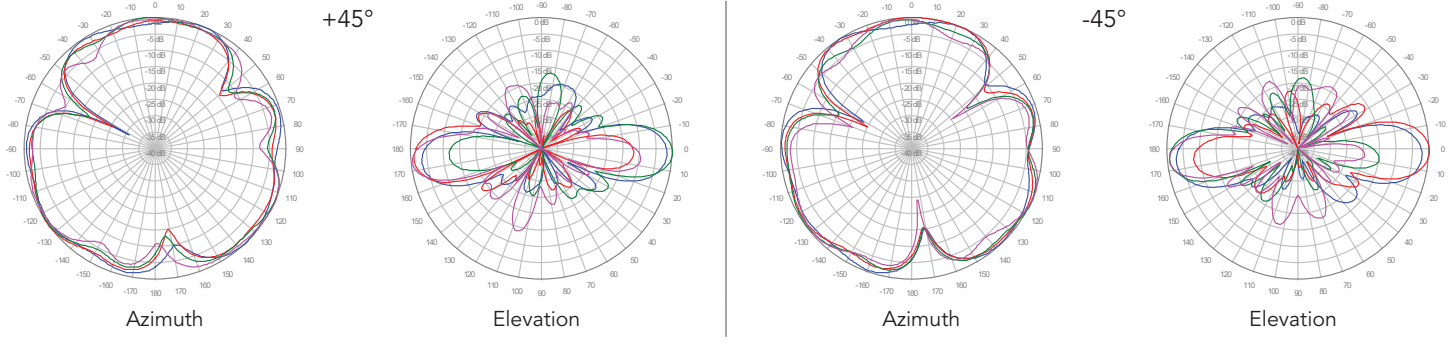
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

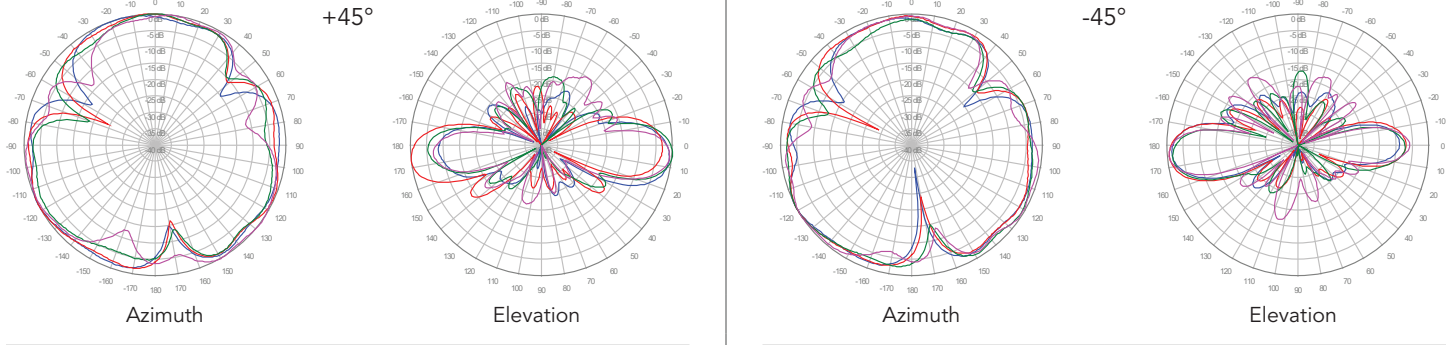


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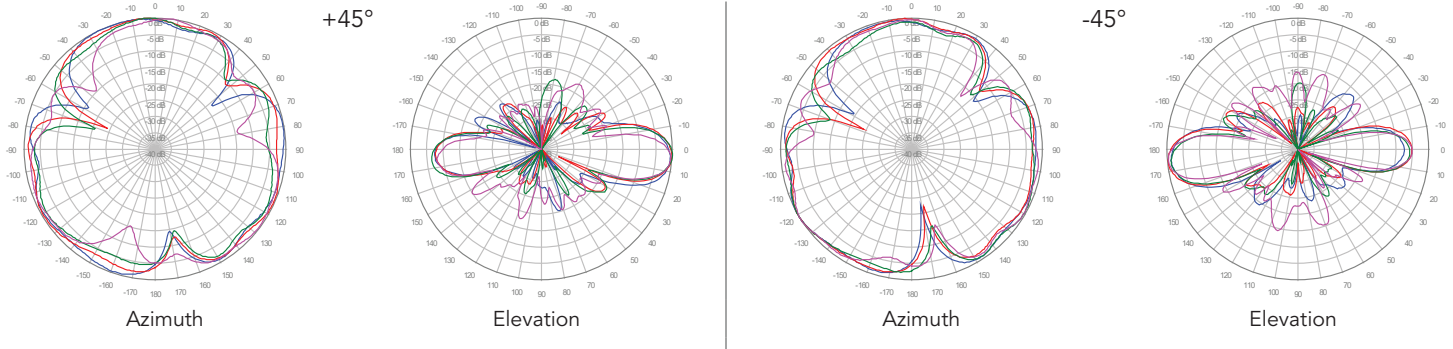
6U4MT360X12F_{xy}s4-GPS

- 1800 MHz ————
- 1900 MHz ————
- 2100 MHz ————
- 2600 MHz ————

Y5, 4° TILT



Y6, 4° TILT

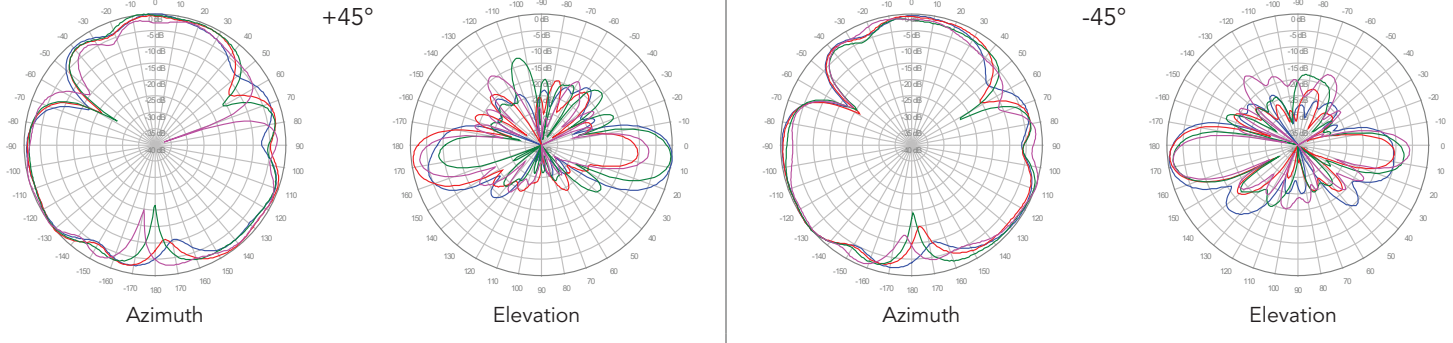


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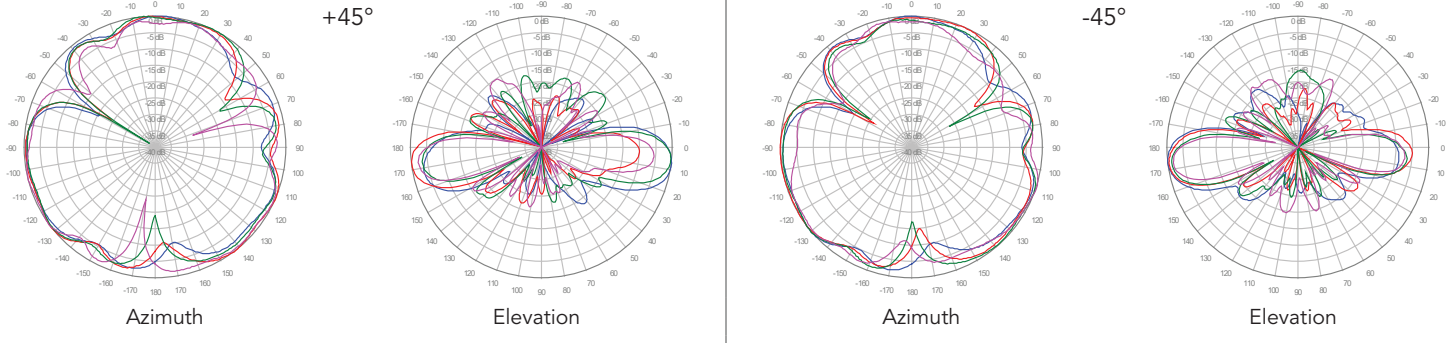
6U4MT360X12F_{xy}s4-GPS

1800 MHz ————
 1900 MHz ————
 2100 MHz ————
 2600 MHz ————

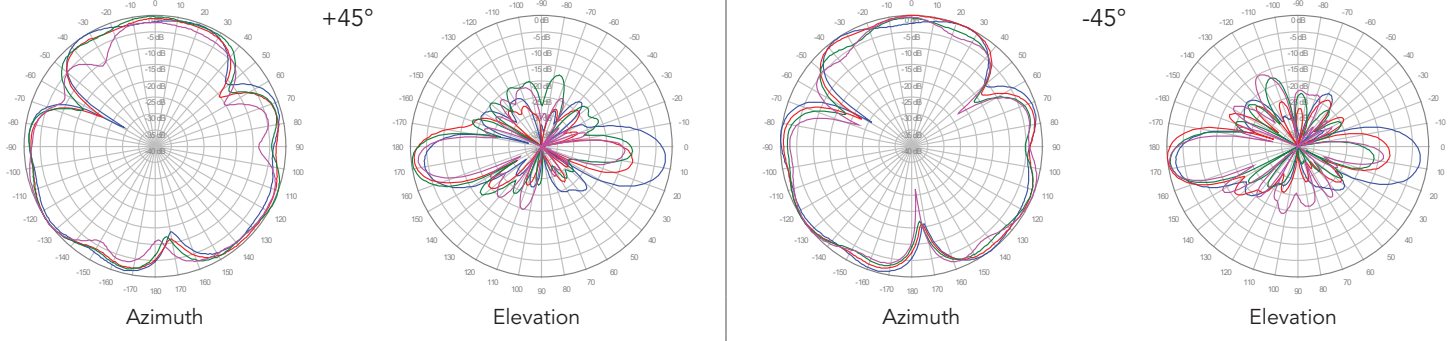
Y1, 6° TILT



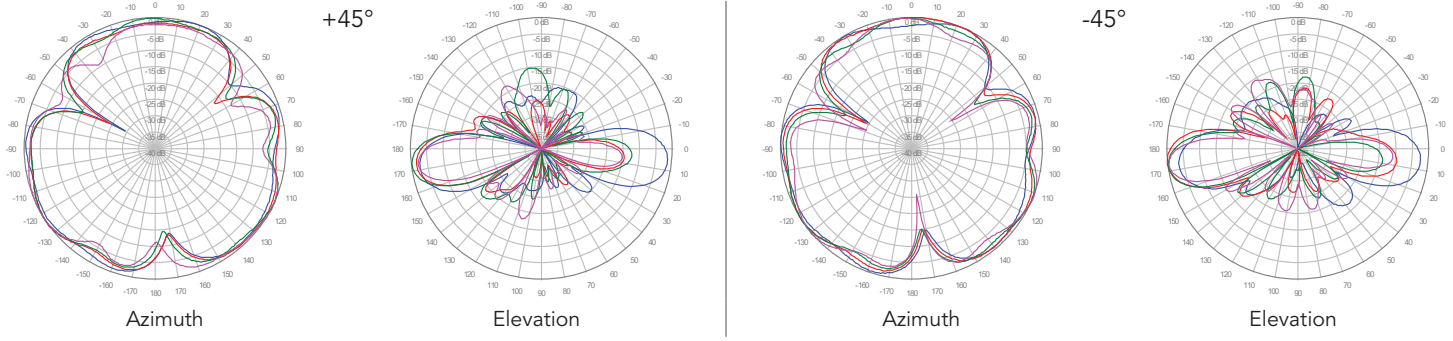
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT



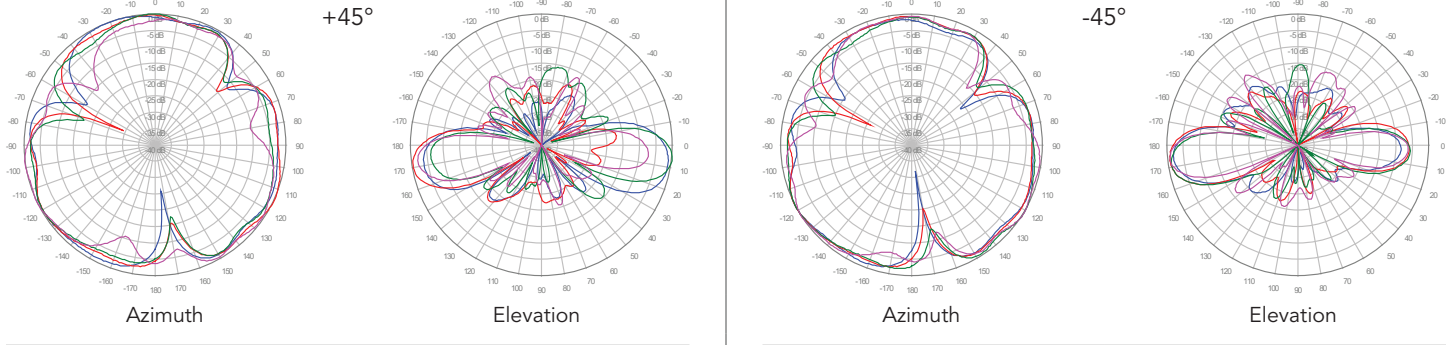
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OMNI | 47.4 IN | FIXED TILT

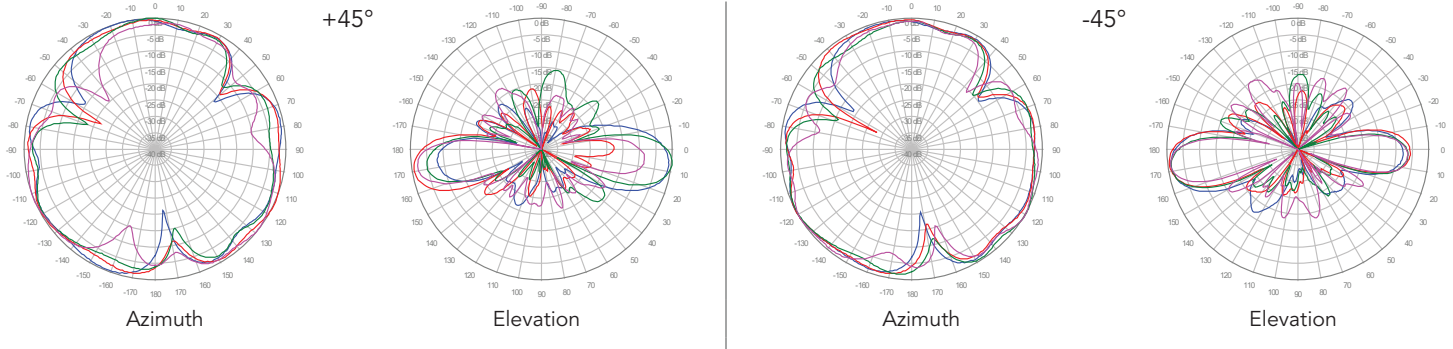
6U4MT360X12F_{xy}s4-GPS

1800 MHz ————
 1900 MHz ————
 2100 MHz ————
 2600 MHz ————

Y5, 6° TILT



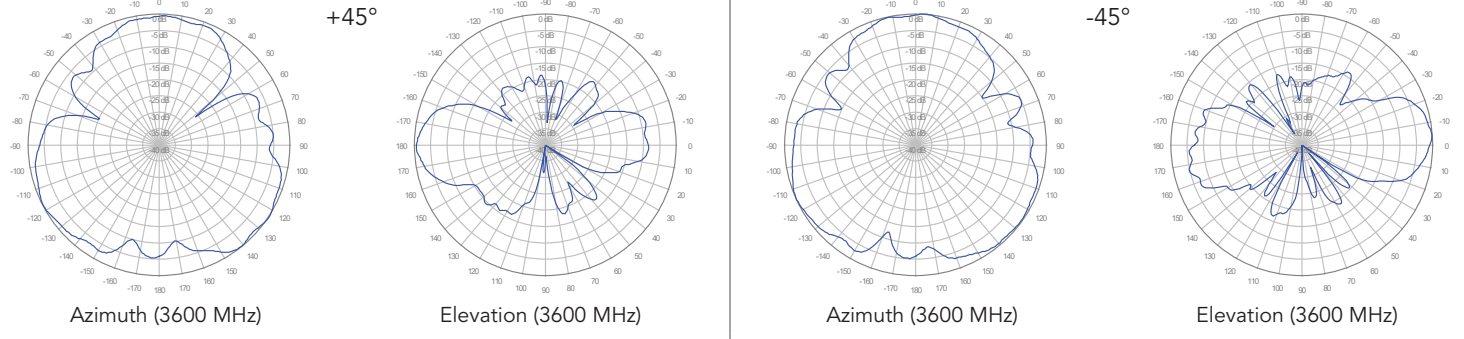
Y6, 6° TILT



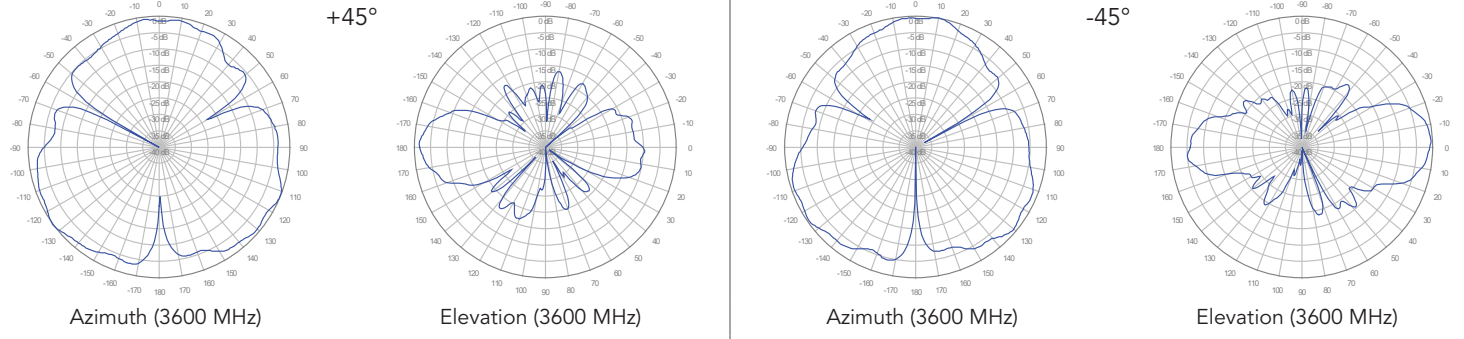
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6U4MT360X12F_{xy}s4-GPS

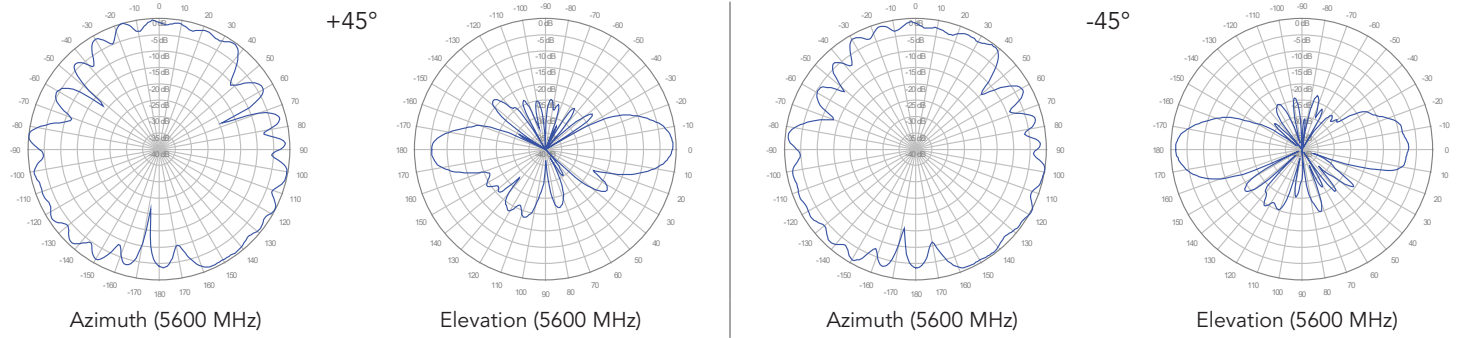
P1, 0° TILT



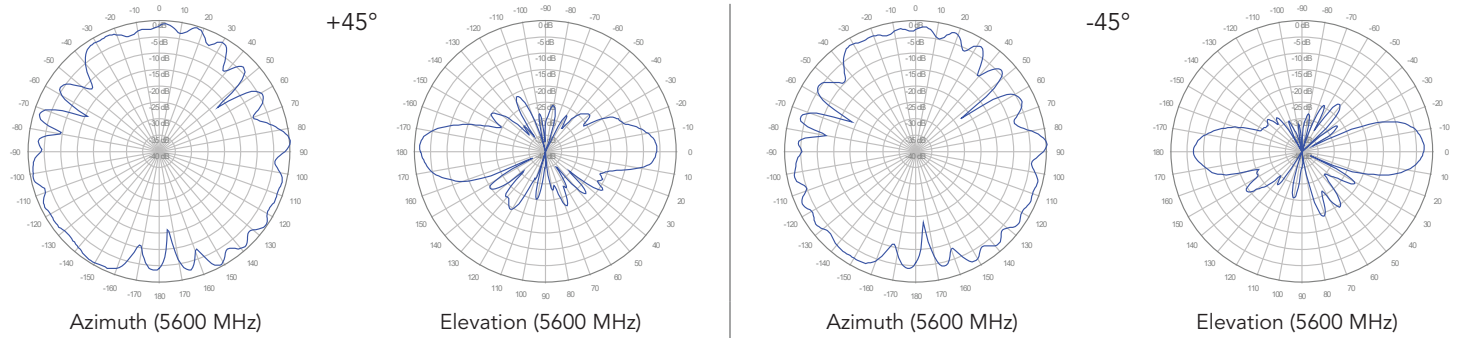
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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