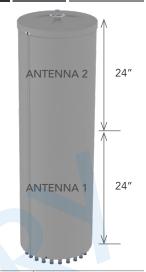
(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

Features

- 4G/5G sector & omni configuration with 28 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



	[GPS BAND	MID BA	ND	CBRS BAND	LAA BAND				
	Frequency Range (MHz)	1575.42± 10 MHz	(6x) 1695-	2700	(2x) 3300-4200	(2x) 5150-5925				
EW	Array		Y1 Y2 Y3 Y4 Y5 Y6	Y7 Y8 Y9 Y10	■ P1 ■ P2	■ O1 ■ O2				
ERVIEW	Connector	1 PORT	12 PORTS	8 PORTS	4 PORTS	4 PORTS				
OVE	Polarization	RIGHT HAND CIRCULAR	XPOL	XPOL	XPOL	XPOL				
5	Azimuth Beamwidth (avg)		SECTORIZED	OMNI	OMNI	OMNI				
PRODUC	Electrical Downtilt		2°, 4°,	6°	0°	0°				
RO	Configuration	S	SECTOR & OMNI COMBINATION WITH INTEGRATED GPS UNIT (28x) 4.3-10 FEMALE CONNECTORS and (1x) N-TYPE FEMALE CONNECTOR FOR GPS							
<u>.</u>	Connector Type	(28x) 4.3-10 F								
	Dimensions		1205 x Ø371 mm (47.4 x Ø14.6 in)							
	Radome Color Options		GREY	, BROWN or BLACK						

Frequency Rang	ge	MHz	(4x) 1695-2700						
Frequency Sub-	Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization				(4x)	±45°				
C :	BASTA	dBi	12.9 ± 0.6	13.4 ± 0.3	13.6 ± 0.4	14.1 ± 0.7			
Gain	MAX	dBi	13.4	13.3	13.7	14.7			
Azimuth Beamv	vidth (3 dB)	degrees	84.0° ± 8.2°	79.2° ± 5.5°	75.6° ± 6.4°	66.7° ± 6.5°			
Elevation Beam	width (3 dB)	degrees	23.1° ± 1.7°	21.6° ± 0.9°	20.4° ± 1.9°	16.9° ± 1.2°			
Electrical Down	tilt	degrees	(x) 2°, 4°, 6°						
Impedance		Ohms	50Ω						
VSWR				≤ 1	≤ 1.5:1				
Passive Intermo 3rd Order for 2x		dBc	< -153						
Front-to-Back R	atio	dB	> 21	> 22	> 24	> 24			
Upper Sidelobe	Suppression	dB	> 14	> 14	> 14	> 14			
In allaga a	Intraband	dB	> 25						
Isolation	Interband	dB	> 28						
Input Power Wa			300W						



(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

ELECTRICAL	SPECIFICATIONS	Mid Band - Omni		■ Y7	■ Y8 ■ Y9 ■ Y	/10		
Frequency Range MHz			(2x) 1695-2700					
Frequency Sub-	Range	MHz	1695-1880	1920-2200	2300-2700			
Polarization			(2x) ±45°					
Cair	BASTA	dBi	8.3 ± 0.8	9.0 ± 0.5	9.1 ± 0.5	9.0 ± 0.9		
Gain	MAX	dBi	9.1	9.5	9.6	9.9		
Azimuth Beamw	vidth (3 dB)	degrees	360°	360°	360°	360°		
Elevation Beamwidth (3 dB)		degrees	23.1° ± 1.7°	21.6° ± 0.9°	20.4° ± 1.9°	16.9° ± 1.2°		
Electrical Down	rical Downtilt degrees (x) 2°, 4°, 6°							
Impedance		Ohms		50	Ω			
VSWR				≤ 1.	5:1			
Passive Intermo 3rd Order for 2x		dBc	< -153					
Upper Sidelobe	Suppression	dB	> 14	> 14	> 14	> 14		
In all office	Intraband	dB		> :	25			
Isolation	Interband	dB	> 28					
Input Power Watts			300W					

ELECTRIC	AL SPECIFICATIONS	CBRS Band	■ P1 ■ P2
Frequency F	Frequency Range		(2x) 3300-4200
Polarization	Polarization		(2x) ±45°
6 :	BASTA	dBi	5.5 ± 0.6
Gain	MAX	dBi	6.1
Azimuth Bea	amwidth (3 dB)	degrees	360°
Elevation Be	eamwidth (3 dB)	degrees	32.6 ± 4.1°
Electrical Do	owntilt	degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR			≤ 1.5:1
Passive Inte	rmodulation or 2x20 W Carriers	dBc	N/A
Upper Sidel	Upper Sidelobe Suppression		N/A
In all attack	Intraband		> 25
Isolation	Interband	dB	> 28
Input Power		Watts	100W



(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

ELECTRICA	AL SPECIFICATIONS	LAA Band	■ O1 ■ O2					
Frequency Range		MHz	(2x) 5150-5925					
Polarization			(2x) ±45°					
	BASTA	dBi	5.1 ± 0.7					
Gain	MAX	dBi	5.8					
Azimuth Bea	amwidth (3 dB)	degrees	360°					
Elevation Be	eamwidth (3 dB)	degrees	22.0° ± 1.6°					
Electrical Do	pwntilt	degrees	(y) 0°					
Impedance		Ohms	50Ω					
VSWR			≤ 1.5:1					
Passive Inter 3rd Order fo	rmodulation or 2x20 W Carriers	dBc	N/A					
Upper Sidel	obe Suppression	dB	> 20					
1 1	Intraband		> 25					
Isolation	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	N-Type Female			
	I			

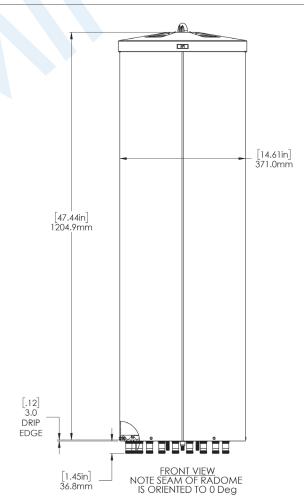
(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

MECHANICAL SPECIFICATIONS

Height		mm (in)	1205 (47.4)	
Diameter		mm (in)	371 (14.6)	
Net Weight - Antenna Only		kg (lbs)	20 (44)	
Windload	Calculation	km/h (mph)	160 (100)	
	Frontal	N (lbf)	391 (88)	
Survival Wind Speed	Survival Wind Speed		241 (150)	
Wind Area	Wind Area		0.47 (5.0)	
Volume	Total	m³ (ft³)	0.13 (4.7)	
volume	Each Antenna	m³ (ft³)	0.065 (2.33)	
Commenter	Type & Quantity		(28x) 4.3-10 Female and (1x) N-Type Female for GPS	
Connector	Connector Position		Bottom	
Radome Color			Grey (Pantone 420 C) Brown (Pantone 476 C) Black (RAL 9011)	
Lightning Protection	(Grounding Type)		Direct Ground	



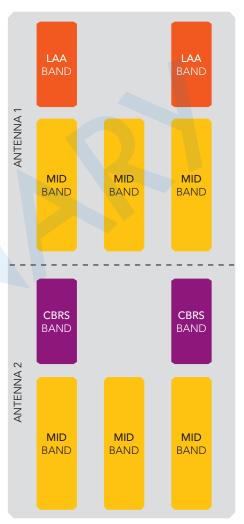
(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
	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
MID DAND	1695-2700	■ Y5	9-10	(2x) 4.3-10 Female
MID BAND	1695-2700	■ Y6	11-12	(2x) 4.3-10 Female
	1695-2700	■ Y7	13-14	(2x) 4.3-10 Female
	1695-2700	■ Y8	15-16	(2x) 4.3-10 Female
	1695-2700	■ Y9	17-18	(2x) 4.3-10 Female
	1695-2700	Y 10	19-20	(2x) 4.3-10 Female
CBRS BAND	3550-3700	■ P1	21-22	(2x) 4.3-10 Female
CRK2 RAIND	3550-3700	■ P2	23-24	(2x) 4.3-10 Female
LAA DAND	5150-5925	O 1	25-26	(2x) 4.3-10 Female
LAA BAND	5150-5925	O 2	27-28	(2x) 4.3-10 Female
GPS BAND	1575.42		29	(1x) N-Type Female



The illustration is not shown to scale.

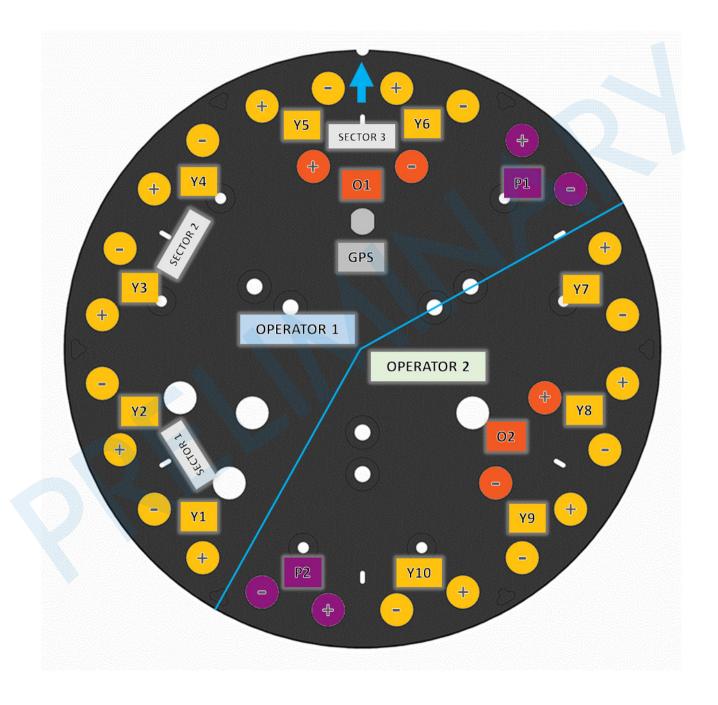


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

BOTTOM VIEW - LABELING



(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

MOUNTING KITS Select from the follow

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.



(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

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

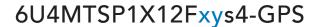
	ER OF BA		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS
6U	41	М	Т	SP1	X	12	F	xy	S	4	BK BR	-GPS
(6x) 1695- 2700	(2x) 3300- 4200	(2x) 5150- 5925	Tri-Sector	Sector and Pseudo Omni Combina- tion	XPOL	1.2 meters	Fixed Tilt	These 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

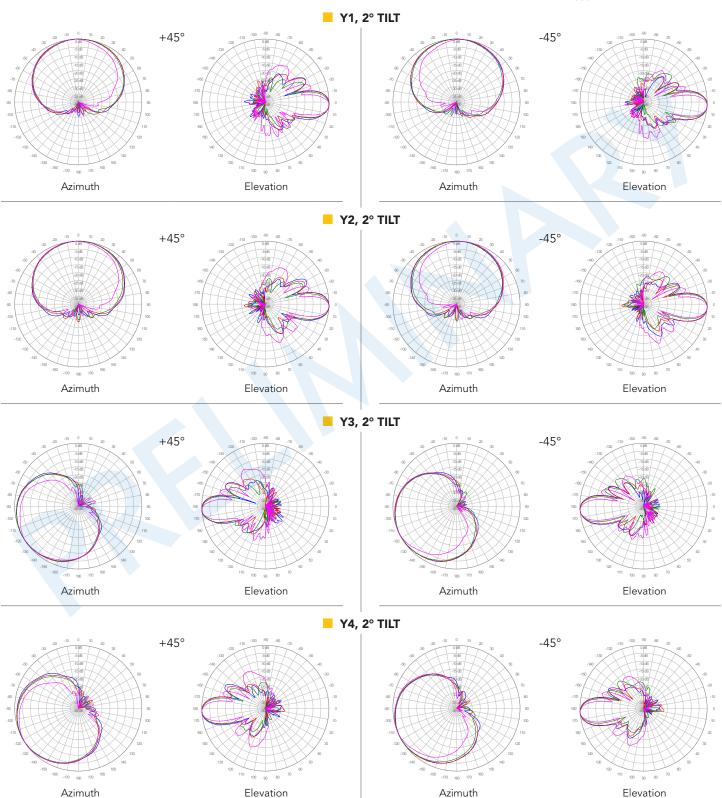
SELECT	SELECT DEGREE OF	ELECTRICAL DOWNTII	T FOR EACH BAND	ORDER
RADOME COLOR	MID BAND	CBRS BAND	LAA BAND	MODEL NUMBER
	2°	0°	O°	6U4MTSP1X12F 20 s4-GPS
Grey	4°	0°	O°	6U4MTSP1X12F 40 s4-GPS
Pantone 420 C	6°	0°	O°	6U4MTSP1X12F60s4-GPS
	Y1-Y6=6°; Y7-Y10=2°	0°	0°	6U4MTSP1X12FAAs4-GPS
	2°	0°	O°	6U4MTSP1X12F20s4BR-GPS
Brown	4°	0°	O°	6U4MTSP1X12F40s4BR-GPS
Pantone 476 C	6°	0°	0°	6U4MTSP1X12F60s4BR-GPS
	Y1-Y6=6°; Y7-Y10=2°	0°	0°	6U4MTSP1X12FAAs4BR-GPS
	2°	0°	0°	6U4MTSP1X12F20s4BK-GPS
Black	4°	0°	O°	6U4MTSP1X12F40s4BK-GPS
RAL 9011	6°	0°	0°	6U4MTSP1X12F60s4BK-GPS
	Y1-Y6=6°; Y7-Y10=2°	0°	O°	6U4MTSP1X12FAAs4BK-GPS

(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

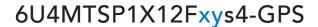




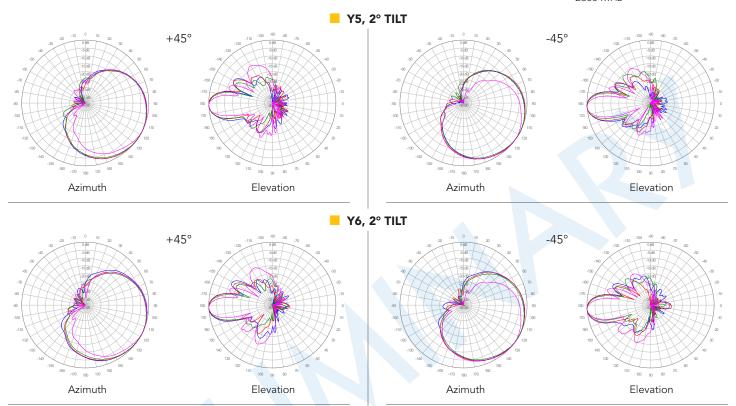


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

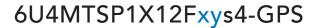




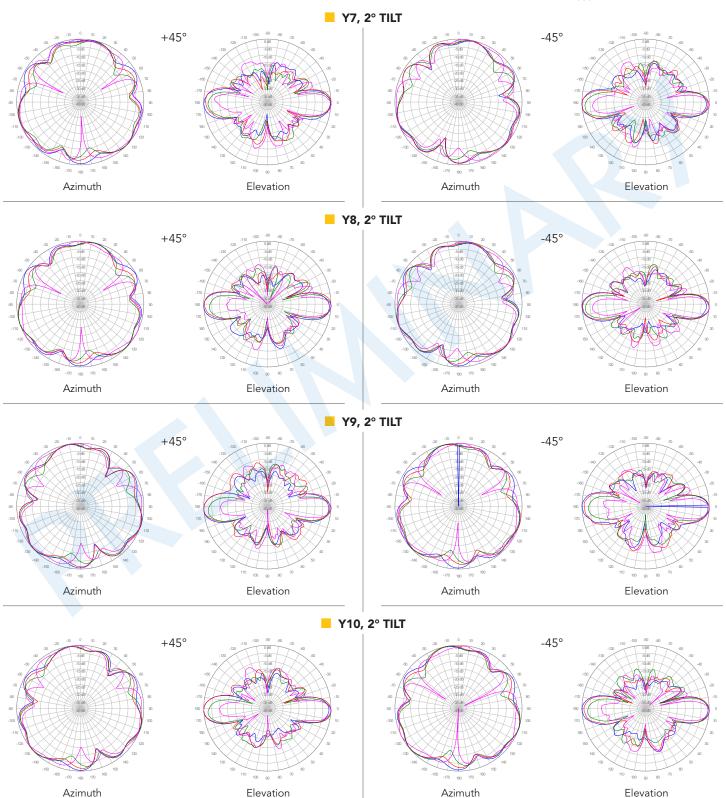


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

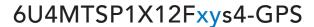




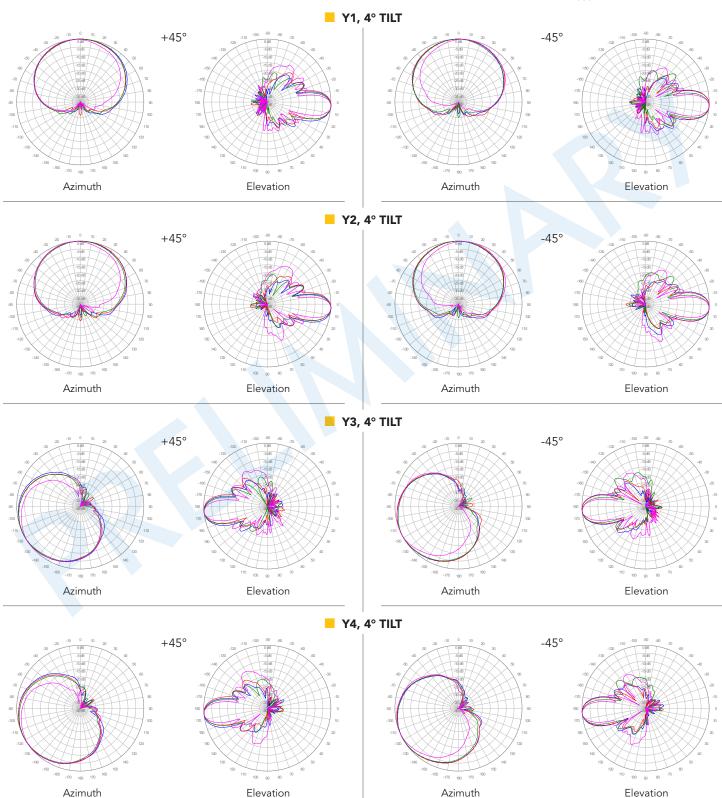


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

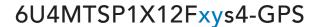




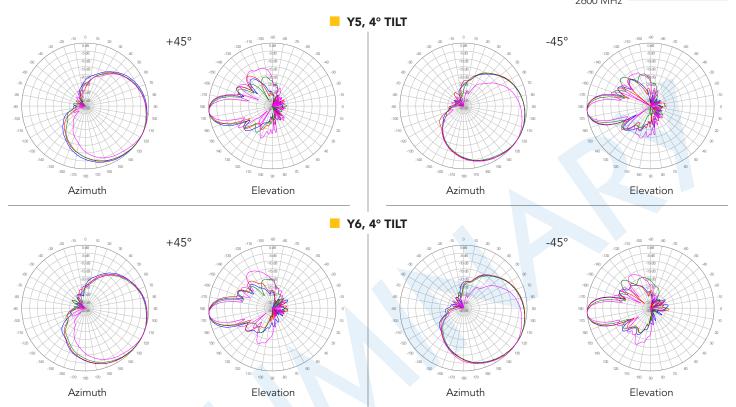


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT



1800 MHz 1900 MHz 2100 MHz 2600 MHz

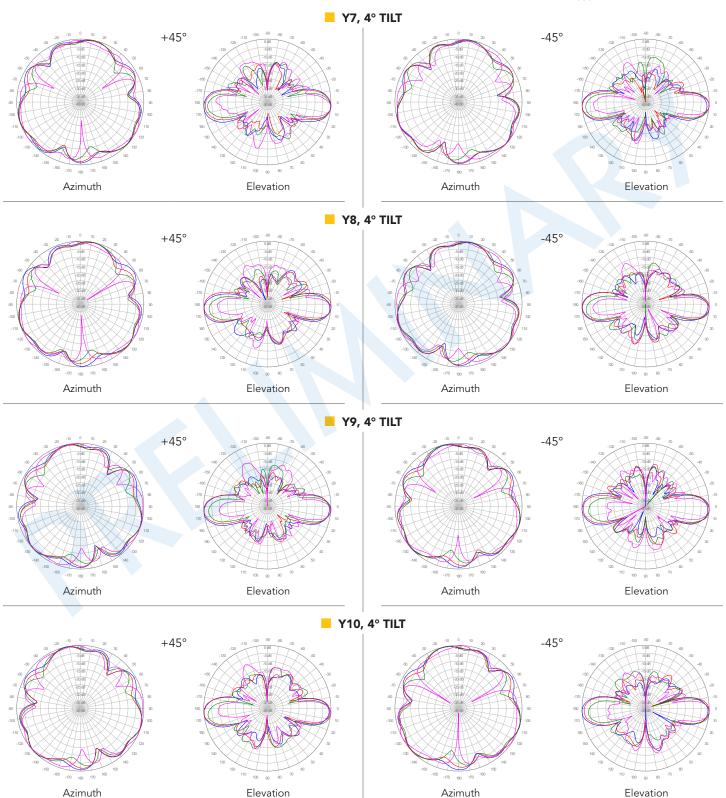


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT





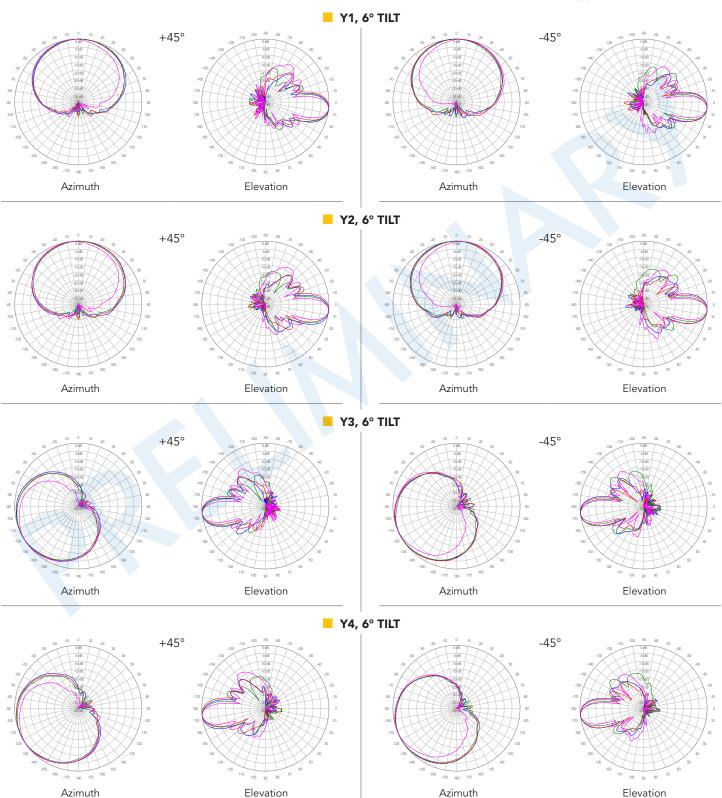


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

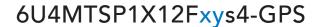




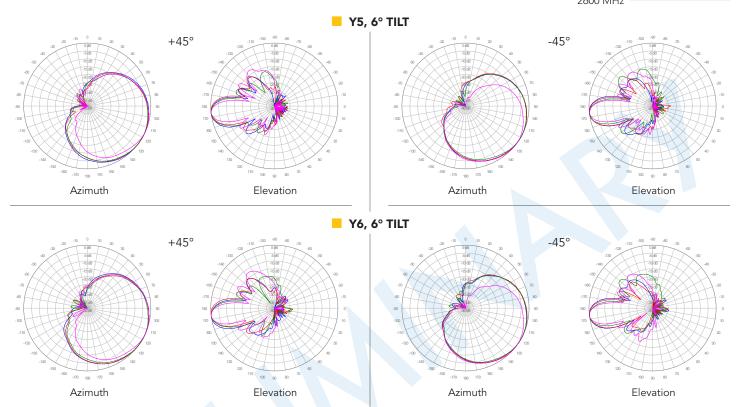


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

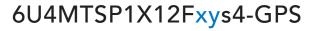


1800 MHz 1900 MHz 2100 MHz 2600 MHz

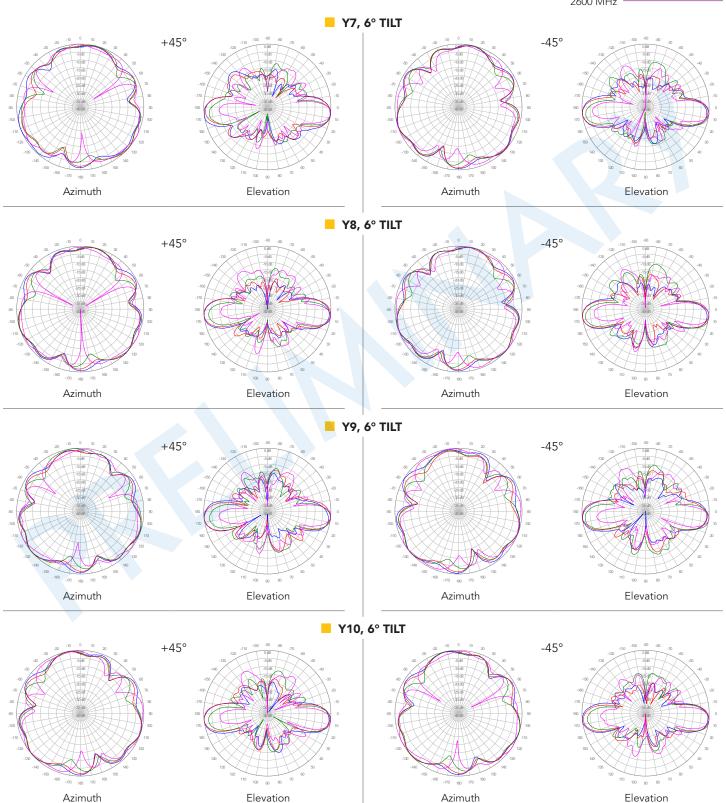


(6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT







SECTOR / OMNI COMBINATION 47.4 IN FIXED TILT

6U4MTSP1X12Fxys4-GPS

