

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

SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT

4U4MTSP1X06Fxys4

Features

- Sector & omni configuration with 24 connectors
- 4x4 MIMO capable in both omni and tri-sectored configurations at 1695-2700 MHz
- Broadband networks 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)	(4x) 169	95-2700	(2x) 3300-4200	(2x) 5150-5925			
	Array	Y1 Y2 Y3 Y4 Y5 Y6	■ Y7 ■ Y8	■ P1 ■ P2	■ O1 ■ O2			
	Connector	12 PORTS	4 PORTS	4 PORTS	4 PORTS			
M	Polarization	XPOL	XPOL	XPOL	XPOL			
R	Azimuth Beamwidth (avg)	SECTORIZED	OMNI	OMNI	OMNI			
OVERVIEW	Electrical Downtilt	2°, 4	°, 6°	0°	0°			
	Configuration		SECTOR & OMN	I COMBINATION				
PRODUCT	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	300 WATTS	100 WATTS	50 WATTS			
PR	Maximum Total Continuous Power at 50° C (122° F)	5400 WATTS						
	Connector Type	(24x) 4.3-10 FEMALE						
	Dimensions	606 x Ø371 mm (23.9 x Ø14.6 in)						
	Radome Color Options		GREY, BROV	VN or BLACK				

ELECTRICAL	SPECIFICATIONS	Sectorized		■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6				
Frequency Rang	је	MHz		(4x) 16	95-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700		
Polarization				(4x)	±45°			
Gain	BASTA	dBi	12.8 ± 0.6	12.9 ± 0.4	13.1 ± 0.6	13.9 ± 0.8		
Gain	MAX	dBi	13.4	13.3	13.7	14.7		
Azimuth Beamv	vidth (3 dB)	degrees	91.2° ± 9.5°	88.2° ± 7.6°	85.3° ± 7.4°	71.1° ± 11.7°		
Elevation Beamwidth (3 dB)		degrees	21.3° ± 2.0°	20.1° ± 1.7°	19.3° ± 1.9°	15.3° ± 1.8°		
Electrical Down	tilt	degrees	(x) 2°, 4°, 6°					
Impedance		Ohms	50Ω					
VSWR			≤ 1.5:1					
Passive Intermodulation 3rd Order for 2x20 W Carriers dBc		dBc	< -153					
Front-to-Back R	atio	dB	> 21	> 22	> 24	> 24		
Upper Sidelobe Suppression		dB	N/A	N/A	N/A	N/A		
	Intraband	dB		>	25			
Isolation	Interband	dB	> 28					



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ELECTRICAL	SPECIFICATIONS	Omni	■ Y7 ■ Y8				
Frequency Ran	ge	MHz	(4x) 1695-2700				
Frequency Sub	-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700	
Polarization				(4x)	±45°		
0.1	BASTA	dBi	9.5 ± 0.6	9.3 ± 0.5	9.1 ± 0.5	9.6 ± 0.6	
Gain	MAX	dBi	10.1	9.8	9.6	10.2	
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)		degrees	21.5° ± 3.0°	20.0° ± 1.5°	19.0° ± 1.8°	15.4° ± 2.2°	
Electrical Dowr	ntilt	degrees	(x) 2°, 4°, 6°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.5:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers dBc		dBc	< -153				
Upper Sidelobe Suppression		dB	N/A	N/A	N/A	N/A	
La La Cara	Intraband	dB	> 25				
Isolation	Interband	dB		>	28		

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-4200				
Frequency Sub-Range		MHz	3300-3700	3700-4200			
Polarization			(2x) ±45°				
Gain	BASTA	dBi	6.4 ± 0.5	6.5 ± 0.8			
	MAX	dBi	6.9	7.3			
Azimuth Bea	Azimuth Beamwidth (3 dB)		360°	360°			
Elevation Be	Elevation Beamwidth (3 dB)		29.4° ± 6.7°	23.4° ± 9.9°			
Electrical Do	Electrical Downtilt		(y) 0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.5:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153				
1. 1	Intraband	dB	>	25			
Isolation	Interband	dB	>	28			



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ELECTRIC	ELECTRICAL SPECIFICATIONS 01 02		■ O1 ■ O2	
Frequency Range		MHz	(2x) 5150-5925	
Polarization			(2x) ±45°	
Gain	BASTA	dBi	4.9 ± 0.7	
	MAX	dBi	5.6	
Azimuth Be	amwidth (3 dB)	degrees	360°	
Elevation B	eamwidth (3 dB)	degrees	19.8° ± 2.2°	
Electrical D	owntilt	degrees	(y) 0°	
Impedance		Ohms	50Ω	
VSWR			≤ 1.5:1	
	ermodulation or 2x20 W Carriers	dBc	N/A	
Upper Side	lobe Suppression	dB	> 13	
Tarlata .	Intraband	dB	> 25	
Isolation	Interband	dB	> 28	
U-NII Comp	pliant		Yes	



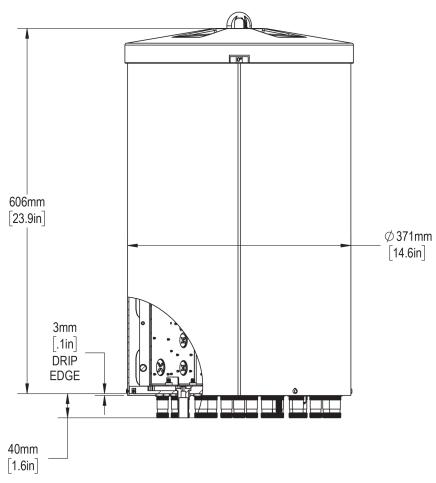
(4x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

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MECHANICAL SPECIFICATIONS

enna	Height		mm (in)	606 (23.9)	
Antenna	Diameter		mm (in)	371 (14.6)	
'			kg (lbs)	13.2 (29.0)	
Windle		Calculation	km/h (mph)	160 (100)	
vvinai	oad	Frontal	N (lbf)	191 (43)	
Survival Wind Speed		km/h (mph)	241 (150)		
Wind	Wind Area		m² (ft²)	0.22 (2.4)	
Volum	е		m³ (ft³)	0.07 (2.3)	
Conne		Туре		(24x) 4.3-10 Female	
Conne	ector	Position		Bottom	
Radome Color			Grey (RAL 7035), Brown (AL 8022), Black (RAL 9011)		
Lightn	ing Protection (Groun	ding Type)		Direct Ground	





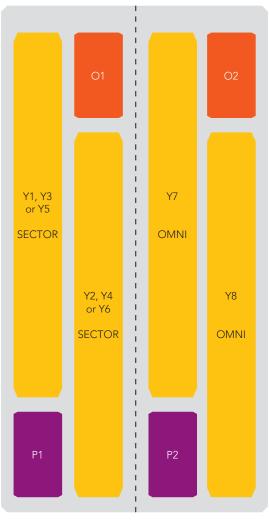
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SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT

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ARRAY LAYOUT Topology

AMMAI LAIGOI	ropology		
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	7-8	(2x) 4.3-10 Female
1695-2700 MHz	■ Y5	9-10	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	11-12	(2x) 4.3-10 Female
1695-2700 MHz	■ Y7	13-14	(2x) 4.3-10 Female
1695-2700 MHz	■ Y8	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	19-20	(2x) 4.3-10 Female
5150-5925 MHz	■ O1	21-22	(2x) 4.3-10 Female
5150-5925 MHz	■ O2	23-24	(2x) 4.3-10 Female



The illustration is not shown to scale.



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SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT

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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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SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT

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

	R OF BAN		PATTERN TYPE	AZIMUTH BEAMWIDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
4U	4	M	Т	SP1	X	06	F	ху	s	4	BK BR
(8x) 1695- 2700	(2x) 3300- 4200	(2x) 5150- 5925	Tri-Sector	Sector & Omni Combina- tion	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

CELECT BADOME COLOR	SELECT DEGREE	MODELNIIMBED		
SELECT RADOME COLOR	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	MODEL NUMBER
	2°	0°	0°	4U4MTSP1X06F20s4
	4°	0°	0°	4U4MTSP1X06F40s4
Grey	6°	0°	0°	4U4MTSP1X06F60s4
RAL 7035	Y1-Y6=6°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FAAs4
	Y1-Y6=4°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FBBs4
	Y1-Y6=6°; Y7-Y8=4°	0°	0°	4U4MTSP1X06FCCs4
	2°	0°	0°	4U4MTSP1X06F20s4BR
	4°	0°	0°	4U4MTSP1X06F40s4BR
Brown	6°	0°	0°	4U4MTSP1X06F60s4BR
RAL 8022	Y1-Y6=6°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FAAs4BR
	Y1-Y6=4°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FBBs4BR
	Y1-Y6=6°; Y7-Y8=4°	0°	0°	4U4MTSP1X06FCCs4BR
	2°	0°	0°	4U4MTSP1X06F20s4BK
	4°	0°	0°	4U4MTSP1X06F40s4BK
Black	6°	0°	0°	4U4MTSP1X06F60s4BK
RAL 9011	Y1-Y6=6°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FAAs4BK
	Y1-Y6=4°; Y7-Y8=2°	0°	0°	4U4MTSP1X06FBBs4BK
	Y1-Y6=6°; Y7-Y8=4°	0°	0°	4U4MTSP1X06FCCs4BK

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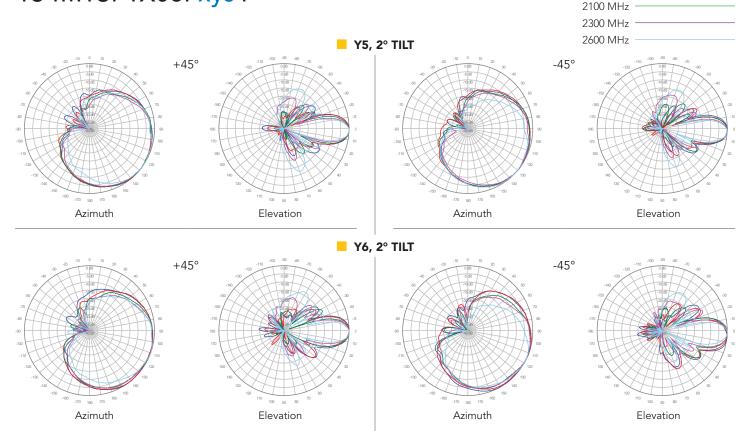
1800 MHz

1900 MHz

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

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24-Port Canister Antenna

Elevation

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

SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT 1800 MHz 4U4MTSP1X06Fxys4 1900 MHz 2100 MHz 2300 MHz 2600 MHz Y7, 2° TILT -45° +45° Elevation Elevation Azimuth Azimuth Y8, 2° TILT +45° -45°

Azimuth

Elevation

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





24-Port Canister Antenna

Elevation

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

SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT 1800 MHz 4U4MTSP1X06Fxys4 1900 MHz 2100 MHz 2300 MHz 2600 MHz Y5, 4° TILT -45° +45° Elevation Elevation Azimuth Azimuth Y6, 4° TILT +45° -45°

Azimuth

Elevation



24-Port Canister Antenna

Elevation

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

SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT 1800 MHz 4U4MTSP1X06Fxys4 1900 MHz 2100 MHz 2300 MHz 2600 MHz Y7, 4° TILT -45° +45° Elevation Elevation Azimuth Azimuth Y8, 4° TILT +45° -45°

Azimuth

Elevation

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

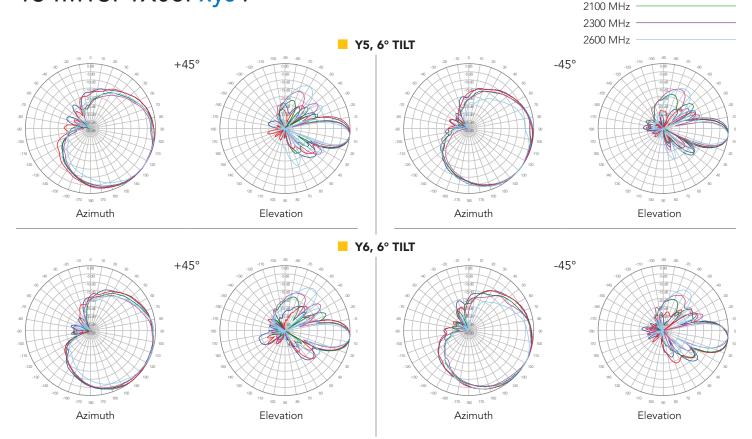




(4x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT 1800 MHz 1900 MHz

4U4MTSP1X06Fxys4





24-Port Canister Antenna

Elevation

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

SECTOR / OMNI COMBINATION 23.9 IN FIXED TILT 1800 MHz 4U4MTSP1X06Fxys4 1900 MHz 2100 MHz 2300 MHz 2600 MHz Y7, 6° TILT -45° +45° Elevation Elevation Azimuth Azimuth Y8, 6° TILT +45° -45°

Azimuth

Elevation

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