

OMNI

23.9 IN

FIXED TILT

4U4MT360X06Fxys4

Features

- Pseudo omni configuration with 16 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Can be ordered with an integrated GPS unit
- This antenna meets the requirements of the U-NII



	Frequency Range (MHz)	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Optional GPS BAND 1575.42 ± 10
	Array	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2	■ O1, ■ O2	
	Connector	8 PORTS	4 PORTS	4 PORTS	1 PORT
>	Polarization	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
VERVIEW	Azimuth Beamwidth (avg)	360°	360°	360°	
	Electrical Downtilt	0°, 2°, 4°, 6°	0°	0°	
O F.	Configuration	OMNI CO			
PRODUCT	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS	50 WATTS	
PRC	Maximum Total Continuous Power at 50° C (122° F)	3000			
	Connector Type	(16x) 4.3	(1x) N-TYPE FEMALE		
	Dimensions	606 x Ø371 m			
	Radome Color Options	GREY, BRO			

ELECTRICAL SPECIEICATIONS

ELECTRIC	AL SPECIFICATIONS			Y1 Y2 Y3 Y4					
Frequency R	Range	MHz	(4x) 1695-2700						
Frequency S	iub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700			
Polarization				(4x)	±45°				
C :	BASTA	dBi	9.5 ± 0.6	9.5 ± 0.4	9.4 ± 0.5	9.7 ± 0.5			
Gain	MAX	dBi	10.1	9.9	9.9	10.2			
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°			
Elevation Be	eamwidth (3 dB)	degrees	21.2° ± 2.0°	19.6° ± 1.2°	18.6° ± 1.7°	15.3° ± 1.9°			
Electrical Do	owntilt	degrees	(x) 0°, 2°, 4°, 6°						
Impedance		Ohms	50Ω						
VSWR			≤ 1.5:1						
Passive Inter 3rd Order fo	rmodulation or 2x20 W Carriers	dBc	< -153						
Upper Sidelobe Suppression		dB	N/A						
La da Cara	Intraband	dB	> 25						
Isolation	Interband	dB	> 28 same band; > 30 different band						

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

OMNI

23.9 IN

FIXED TILT

4U4MT360X06Fxys4

ELECTRICAL SPECIFICATIONS

Intraband

Interband

MHz

dB

dB

ELECTRIC	CAL SPECIFICATIONS	;	■ P1 ■ P2				
Frequency	Range	MHz	(2x) 3300-4200				
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200		
Polarization	1			(2x) ±45°			
6 :	BASTA	dBi	6.2 ± 0.4	5.9 ± 0.8	5.5 ± 0.9		
Gain	MAX	dBi	6.6	6.7	6.4		
Azimuth Beamwidth (3 dB)		degrees	360° 360°		360°		
Elevation B	eamwidth (3 dB)	degrees	29.5° ± 6.2° 28.3° ± 5.2°		26.8° ± 5.5°		
Electrical D	owntilt	degrees	(y) 0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.5:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153				
Upper Sidelobe Suppression		dB	N/A				
In all all and	Intraband	dB	> 25				
Isolation	Interband	dB	>	28 same band; > 30 different bar	nd		

(2x) 5150-5925 Frequency Range Polarization $(2x) \pm 45^{\circ}$ **BASTA** dBi 5.1 ± 0.9 Gain MAX dBi 6.0 Azimuth Beamwidth (3 dB) 360° degrees Elevation Beamwidth (3 dB) degrees $20.4^{\circ} \pm 4.7^{\circ}$ **Electrical Downtilt** degrees **(y)** 0° Impedance Ohms 50Ω **VSWR** ≤ 1.5:1 Passive Intermodulation dBc N/A 3rd Order for 2x20 W Carriers Upper Sidelobe Suppression dB > 14

■ O1 ■ O2

> 25

> 28 Yes

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

U-NII Compliant

Isolation



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

OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

INTEGRATED GPS UNIT OPTIONAL

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

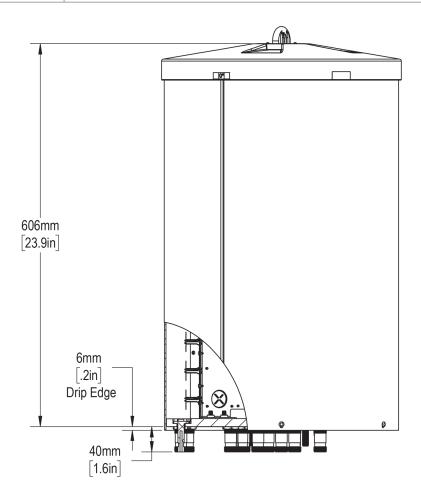
OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

MECHANICAL SPECIFICATIONS

anna	Height		mm (in)	606 (23.9)			
Antenna	Diameter		mm (in)	371 (14.6)			
Net W	Net Weight - Antenna Only			13.2 (29)			
Windload Calculation			km/h (mph)	160 (100)			
vvinai	oad	Frontal	N (lbf)	191 (43)			
Survival Wind Speed			km/h (mph)	241 (150)			
Wind	Wind Area			0.22 (2.4)			
Volum	е		m³ (ft³)	0.07 (2.3)			
<u> </u>		Туре		(16x) 4.3-10 Female; (1x) N-Type Female with optional GPS Unit			
Conne	ector	Position		Bottom			
Radome Color				Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)			
Lightn	ing Protection (Groun	ding Type)		Direct Ground			





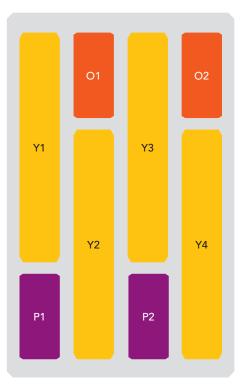
OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

ARRAY LAYOUT Topology

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
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
5150-5925 MHz	O 1	13-14	(2x) 4.3-10 Female
5150-5925 MHz	■ O2	15-16	(2x) 4.310 Female
Optional GPS BAND 1575.42 MHz			(1x) N-Type Female



The illustration is not shown to scale.

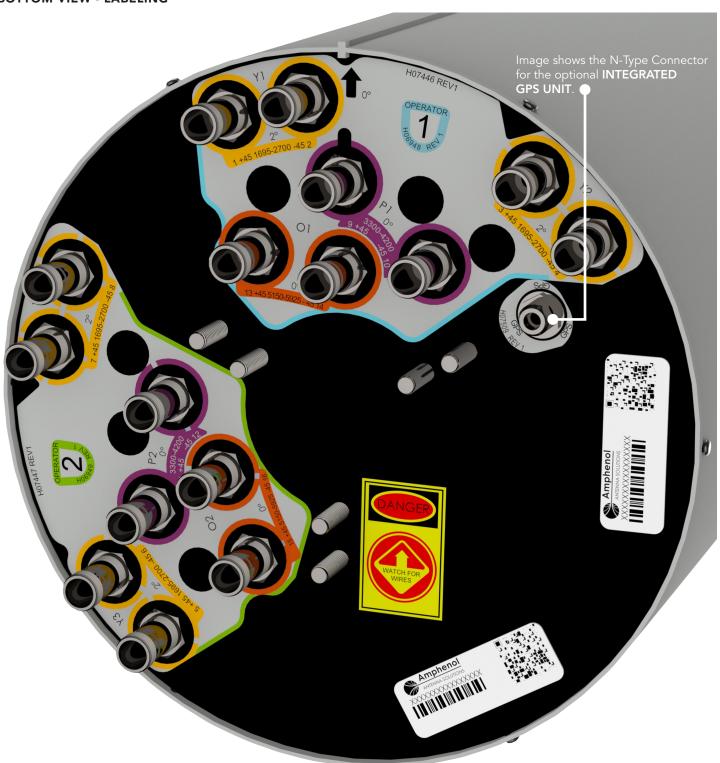


OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

BOTTOM VIEW - LABELING

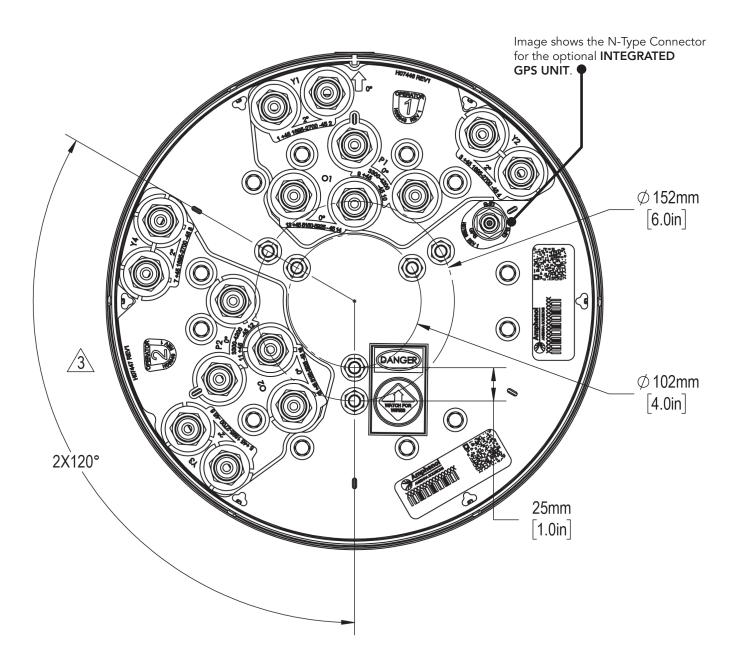


OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

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.

OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

MODEL NUMBER	pptions when ordering. Mounting kits for canister antennas are ordered as a separate line item. 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.





OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

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
4U	41	M	Т	360	X	06	F	xy	S	4	BK BR	-GPS
(4x) 1695- 2700	(2x) 3300- 4200	(2x) 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	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



OMNI

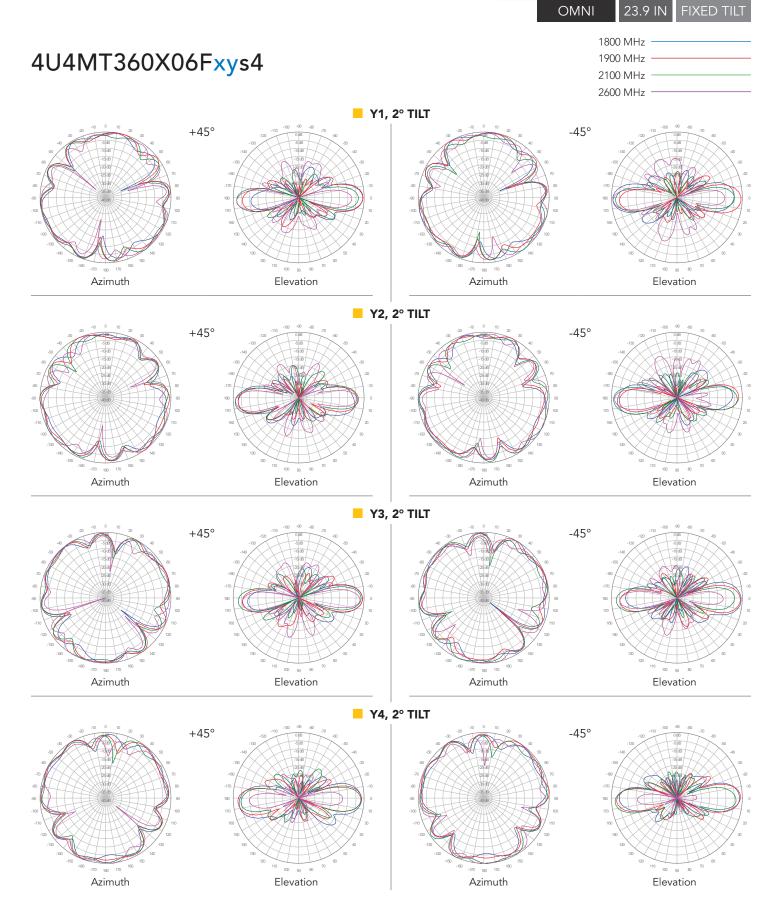
23.9 IN FIXED TILT

4U4MT360X06Fxys4

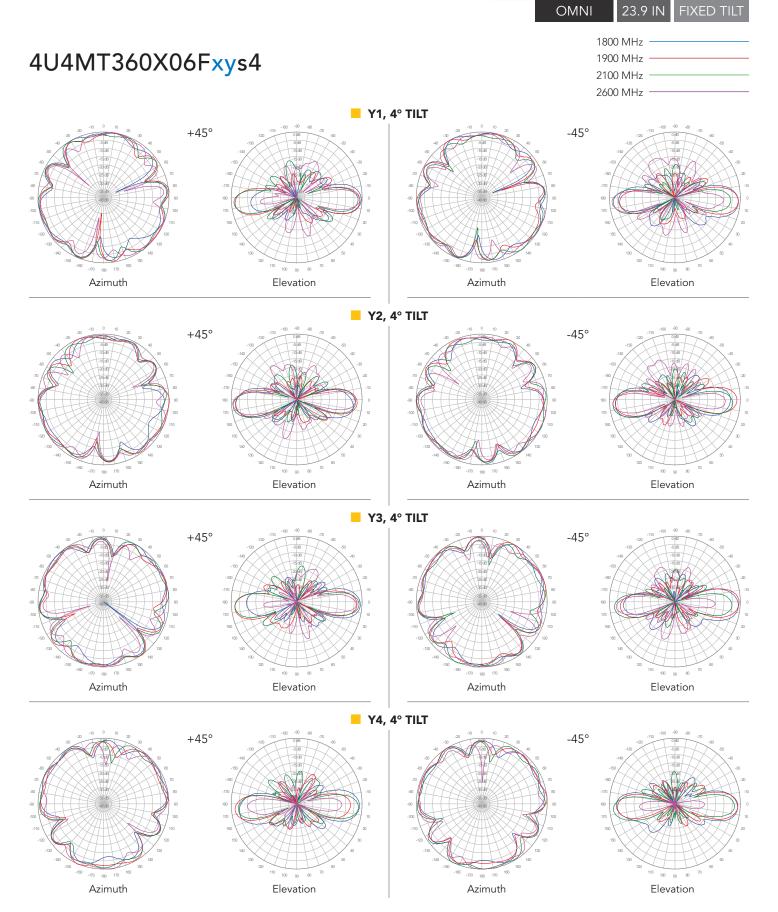
ORDERING OPTIONS Select from the following ordering options

SELECT RADOME		DF ELECTRICAL DON EACH BAND	SELECT ANTENNA TYPE		
COLOR	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
	0°	0°	0°	4U4MT360X06F00s4	4U4MT360X06F00s4-GPS
	2°	0°	0°	4U4MT360X06F20s4	4U4MT360X06F20s4-GPS
	4°	0°	0°	4U4MT360X06F 40 s4	4U4MT360X06F 40 s4-GPS
Grey Pantone 420 C	6°	0°	0°	4U4MT360X06F60s4	4U4MT360X06F60s4-GPS
420 C	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06F AA s4	4U4MT360X06FAAs4-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4	4U4MT360X06FBBs4-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4	4U4MT360X06FCCs4-GPS
	0°	0°	0°	4U4MT360X06F00s4BR	4U4MT360X06F00s4BR-GPS
	2°	0°	0°	4U4MT360X06F20s4BR	4U4MT360X06F20s4BR-GPS
	4°	0°	0°	4U4MT360X06F 40 s4 BR	4U4MT360X06F 40 s4 BR -GPS
Brown Pantone 476 C	6°	0°	0°	4U4MT360X06F60s4BR	4U4MT360X06F60s4BR-GPS
470 C	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BR	4U4MT360X06FAAs4BR-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BR	4U4MT360X06FBBs4BR-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BR	4U4MT360X06FCCs4BR-GPS
	0°	0°	0°	4U4MT360X06F00s4BK	4U4MT360X06F00s4BK-GPS
	2°	0°	0°	4U4MT360X06F20s4BK	4U4MT360X06F20s4BK-GPS
	4°	0°	0°	4U4MT360X06F40s4BK	4U4MT360X06F40s4BK-GPS
Black RAL 9011	6°	0°	0°	4U4MT360X06F60s4BK	4U4MT360X06F60s4BK-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FAAs4BK	4U4MT360X06FAAs4BK-GPS
	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	4U4MT360X06FBBs4BK	4U4MT360X06FBBs4BK-GPS
	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	4U4MT360X06FCCs4BK	4U4MT360X06FCCs4BK-GPS

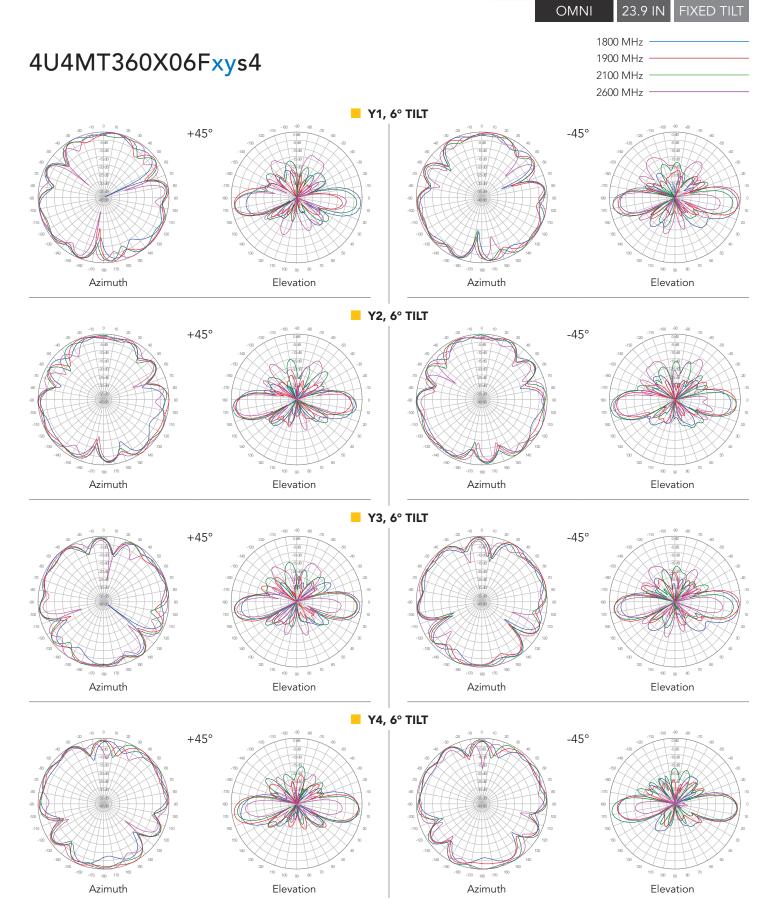
(4x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz



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



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





OMNI

23.9 IN FIXED TILT

4U4MT360X06Fxys4

