

O-BBLLYYZ06-01

14-Ports, X-Pol, Omni Antenna, 0.6m, 2x 694-960/2x 1695-2690/2x 3300-4200/ 5150-5925, 360deg, Fixed Tilt

FEATURES / BENEFITS

This antenna provides a 14 port Omni-Directional platform for advanced use in encompassing low band 700MHz and 800MHz deployment scenarios and high band AWS, PCS, BRS, CBRS, C-Band, and LAA in a high quality package design built to withstand harsh environments.

- **Expanded 3.3 - 4.2 GHz range covers CBRS and full C-Band**

- x4 MIMO on 700/800/900
- x4 MIMO on AWS/PCS/BRS
- x4 MIMO on CBRS/C-Band
- x2 MIMO on LAA
- Clover Omni-Pattern Performance
- Quick and Easy Installation

**Technical features****ELECTRICAL SPECIFICATIONS**

Electrical Specification Header		Low Band Arrays (694-960 MHz) ports 1-4			
Frequency Range	MHz	694-806	806-894	880-960	
Gain Typical	dBi	3.1	3.4	3.8	
Gain Over all Tilts	dBi	2.5+/-0.7	2.8+/-0.6	2.9+/-0.9	
Horizontal Beamwidth	deg	360	360	360	
Vertical Beamwidth	deg	85+/-30	81+/-30	82+/-16	
Electrical Downtilt	deg	0.0	0.0	0.0	
Cross Polar Isolation Between Ports	dB	25	25	25	
VSWR	-	1.5:1	1.5:1	1.5:1	
3rd Order IMP 2 x 43dBm	dBc	- 153	- 153	- 153	
Maximum Power Input	Watts	100	100	100	

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		Mid Band Arrays (1695-2690 MHz) Ports 5-8				
Frequency Range	MHz	1695-1880	1850-1990	1920-2200	2300-2496	2496-2690
Gain Typical	dBi	7.7	8.0	8.5	8.8	10.0
Gain Over All tilts	dBi	7.3+/-0.4	7.5+/-0.5	8+/-0.5	8.1+/-0.7	9.1+/-0.9
Horizontal Beamwidth	deg	360	360	360	360	360
Vertical Beamwidth	deg	20+/-3	18+/-1	17+/-2	15+/-2	14+/-1
Electrical Downtilt	deg	0.0	0.0	0.0	0.0	0.0
Cross Polar Isolation Between Ports	dB	25	25	25	25	25
VSWR	-	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dBc	-153	-153	-153	-153	-153
Maximum Power Input	Watts	100	100	100	100	100

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Arrays (3300-4200) Ports 9-12			
Frequency Range	MHz	3300-3400	3400-3700	3700-4000	4000-4200
Gain Typical	dBi	6.9	7.2	6.7	6.7
Gain Over All Tilts	dBi	6.2+/-0.7	6.3+/-0.9	6+/-0.7	6.1+/-0.6
Max Gain	dBi	6.9	7.4	7.2	6.9
Min Gain	dBi	5.4	5.3	5.1	5.3
Horizontal Beamwidth	deg	360	360	360	360
Vertical Beamwidth	deg	34+/-4	33+/-4	30+/-4	27+/-4
Electrical Downtilt	deg	0.0	0.0	0.0	0.0
Cross Polar Isolation Between Ports	dB	25	25	25	25
VSWR	-	1.5:1	1.4:1	1.5:1	1.5:1
3rd Order IMP 2 x 43dBm	dBc	/	-153	/	/
Maximum Power Input	Watts	75	75	75	75

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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		High Band Arrays (5150-5925) Ports 13-14
Frequency Range	MHz	5150-5925
Gain Typical	dBi	5.9
Gain Over All Tilts	dBi	4.6+/-1.3
Horizontal Beamwidth	deg	360
Vertical Beamwidth	deg	24+/-4
Electrical Downtilt	deg	0.0
Cross Polar Isolation Between Ports	dB	25
VSWR	-	1.4:1
3rd Order IMP 2 x 43dBm	dB	/
Maximum Power Input	Watts	5

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		5 GHz FCC Power Requirements			
U-NII Band	-	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3
Frequency	MHz	5150-5250	5250-5350	5470-5725	5725-5850
Max Input Power per port to align with FCC Title 47 Part 15	Watts	0.5	0.125	0.125	0.5

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50
Polarization	Deg	±45°

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	609 x 355 x 355 (24 x 14 x 14)
Weight (Antenna Only)	kg (lb)	11.3 (24.9)
Weight (Mounting Hardware only)	kg (lb)	6 (13.2)
Packing size- HxWxD	mm (in)	900 x 475 x 460 (35.4 x 18.7 x 18.1)
Shipping Weight	kg (lb)	21 (46.3)
Connector type		14 x 4.3-10 Long Neck Female/Bottom
Radome Material / Color		ASA / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	240 (150)
Wind Load @Rated Wind Front	N	170
Wind Load @Rated Wind Side	N	170
Wind Load @Rated Wind Rear	N	170

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ORDERING INFORMATION

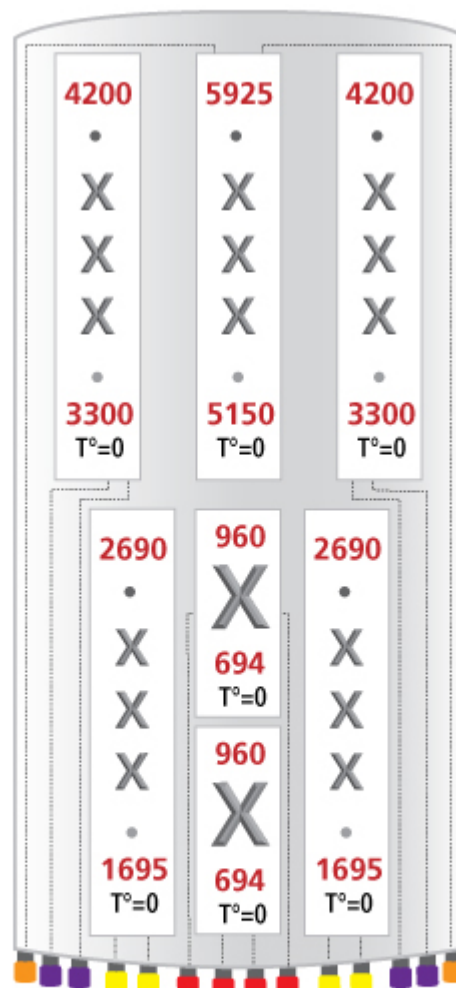
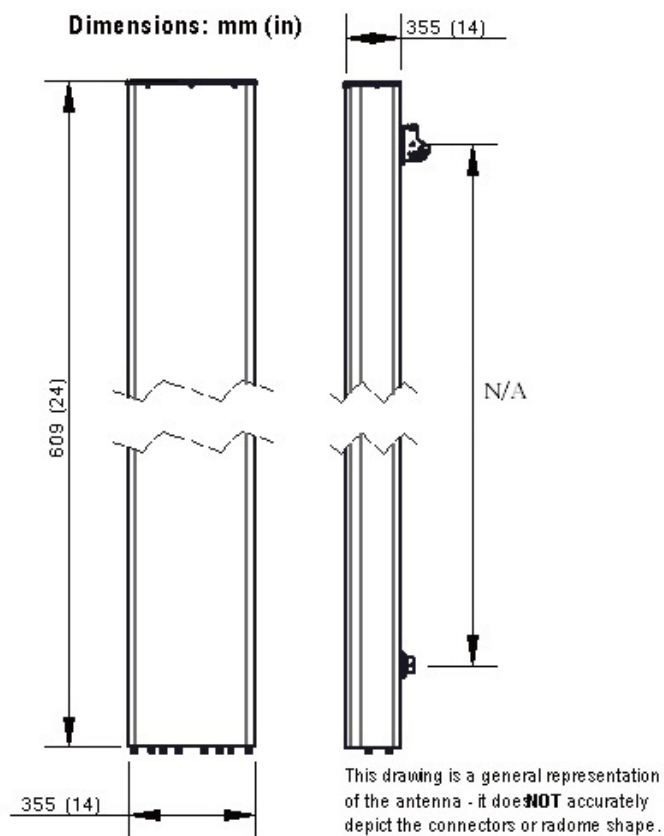
Model Number	Configuration	Mounting Hardware	Mounting pipe Diameter	Shipping Weight
O-BBLLYYZ06-01	Omni-Directional Canister	Pole Top Bracket (Quantity 1 Included)	60-120mm (2.36-4.72 in)	21kg (46.3lbs)



The image shows the top view of a circular, white, omni-directional antenna. It features 14 ports arranged in a circular pattern, each with a colored ring and a number. The ports are labeled with frequency ranges and polarizations: 1 and 2 (red, B 694-960 MHz + R1 -), 3 and 4 (red, T 694-960 MHz + R2 -), 5 and 6 (yellow, Y1 L 1695-2690 MHz), 7 and 8 (yellow, Y2 R 1695-2690 MHz), 9 and 10 (purple, L 3300-4200 MHz + P1 -), 11 and 12 (purple, R 3300-4200 MHz + P2 -), 13 and 14 (orange, + O1 - C 5150-5925 MHz). There are also two black arrows pointing outwards from the center of the antenna.

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[External Document Links](#)
[A_Omni Series_Installation_Instructions](#)

Notes

- All electrical parameters are compliant with BASTA NGMN 11.1 requirements.
- For additional mounting information please click ""External Document Links"".
- **Radiating patterns:** [Request pattern files](#)