O-BBLLYYZ06-01

Features

This antenna provides a 14-port omni-directional platform for advanced use in encompassing low band 700 MHz and 800 MHz 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 to cover 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

PRODUCT OVERVIEW								
	Frequency Range (MHz)	(2x) 694-960		(2x) 1695-2690		(2x) 3300-4200		(1x) 5150-5925
	Array	R1	R2	Y1	Y2	P1	P2	O1
	Connector	1-2	3-4	5-6	7-8	9-10	11-12	13-14
		4 PORTS		4 PORTS		4 PORTS		2 PORTS
	Polarization	XPOL		XPOL		XPOL		XPOL
	Azimuth Beamwidth (avg)	360°		360°		360°		360°
	Electrical Downtilt	0°		0°		0°		0°
	Dimensions	609 x Ø355 mm (24.0 x Ø14 in)						

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
O-BBLLYYZ06-01	Fixed Tilt Omni-Directional Canister	Pole Top Bracket (Quantity 1 Included)	60-120 mm (2.4-4.7 in)	21 kg (46.3 lbs)

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ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

Frequency Range		MHz	694-960		
		MHz	694-806	806-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	2.5 ± 0.7	2.8 ± 0.6	2.9 ± 0.9
	Max Gain	dBi	3.2	3.4	3.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	85° ± 30°	81° ± 30°	82° ± 16°
Electrical Downtilt		degrees	0°		
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)		
Maximum Effective Power Per Port		Watts	100 W		
Cross Polar Isolation Between Ports		dB	25	25	25

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-1990	1920-2200	2300-2496	2496-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	7.3 ± 0.4	7.5 ± 0.5	8 ± 0.5	8.1 ± 0.7	9.1 ± 0.9
	Max Gain	dBi	7.7	8	8.5	8.8	10
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	20° ± 3°	18° ± 1°	17° ± 2°	15° ± 2°	14° ± 1°
Electrical Downtilt		degrees	0°				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Maximum Effective Power Per Port		Watts	100 W				
Cross Polar Isolation		dB	25	25	25	25	25

Specifications follow BASTA guidelines.

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ELECTRICAL SPECIFICATIONS			P1 P2			
Frequency Range		MHz	3300-4200			
		MHz	3300-3400	3400-3700	3700-4000	4000-4200
Polarization		---	±45°			
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	7.2	6.7	6.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	34° ± 4°	33° ± 4°	30° ± 4°	27° ± 4°
Electrical Downtilt		degrees	0°			
Impedance		Ohms	50Ω			
VSWR		---	1.5:1	1.4:1	1.5:1	1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A	-153	N/A	N/A
Maximum Effective Power Per Port		Watts	75 W			
Cross Polar Isolation		dB	25	25	25	25

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS			O1
Frequency Range		MHz	5150-5925
Polarization		---	±45°
Gain	Over all Tilts	dBi	4.6 ± 1.3
	Max Gain	dBi	5.9
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	24° ± 4°
Electrical Downtilt		degrees	0°
Impedance		Ohms	50Ω
VSWR		---	1.4:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Maximum Effective Power Per Port		Watts	5 W
Cross Polar Isolation		dB	25
Cross Polar at 60°		dB	3

Specifications follow BASTA guidelines.

ELECTRICAL SPECIFICATIONS		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 W	0.125 W	0.125 W	0.5 W

Specifications follow BASTA guidelines.

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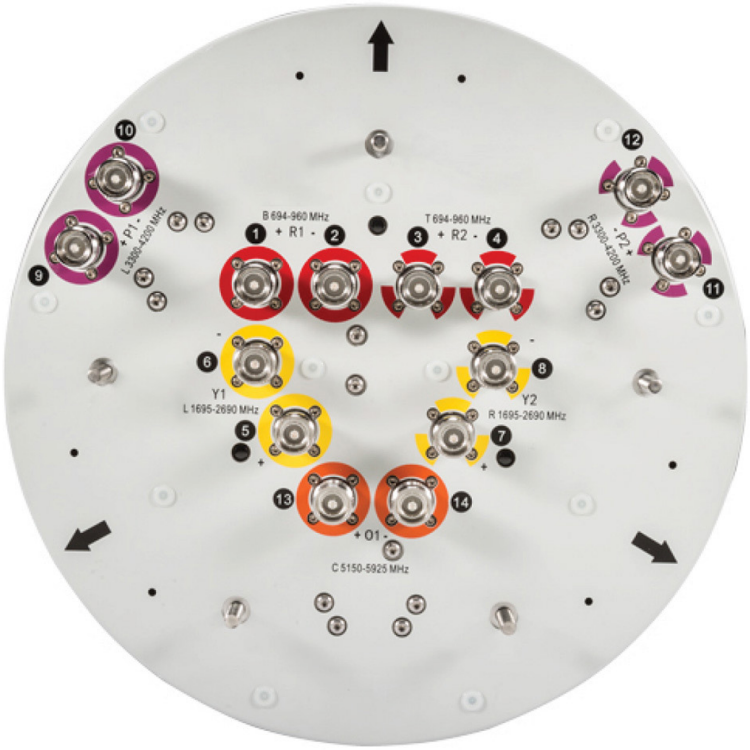
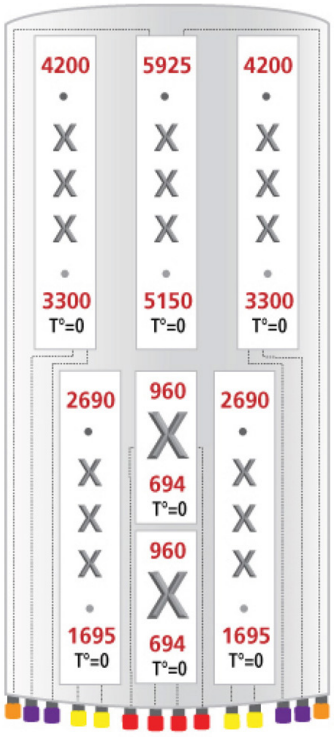
BOTTOM VIEW - LABELING



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
R1	694-960 MHz	1-2	(2x) 4.3-10 Long Neck Female
R2	694-960 MHz	3-4	(2x) 4.3-10 Long Neck Female
Y1	1695-2690 MHz	5-6	(2x) 4.3-10 Long Neck Female
Y2	1695-2690 MHz	7-8	(2x) 4.3-10 Long Neck Female
P1	3300-4200 MHz	9-10	(2x) 4.3-10 Long Neck Female
P2	3300-4200 MHz	11-12	(2x) 4.3-10 Long Neck Female
O1	5150-5925 MHz	13-14	(2x) 4.3-10 Long Neck Female



The illustration is not shown to scale.

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MECHANICAL SPECIFICATIONS

Length		mm (in)	609 (24.0)
Diameter		mm (in)	355 (14.0)
Net Weight - Antenna Only		kg (lbs)	11.3 (24.9)
Net Weight - Mounting Hardware Only		kg (lbs)	6 (13.2)
Wind Load Rated at 150 km/h (93 mph)	Front	N (lbf)	170 (38)
	Side	N (lbf)	170 (38)
	Rear	N (lbf)	170 (38)
Survival Wind Speed / Rated Wind Speed		km/h (mph)	240 (150)
Connector Type		--	(14x) 4.3-10 Long Neck Female at Bottom
Radome Color		---	Light Grey RAL7035
Radome Material		---	ASA
Lightning Protection		---	Direct Ground
Shipping	Packing Size (Length x Width x Depth)	mm (in)	900 x 475 x 460 (35.4 x 18.7 x 18.1)
	Shipping Weight	kg (lbs)	21 (46.3)

ENVIRONMENTAL SPECIFICATIONS

Environmental Standard	---	ETS 300 019
Operating Temperature	degrees	-40° to +60° C (-40° to +140° F)
Product Environmental Compliance	---	Product is RoHS Compliant

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ACCESSORIES

Accessories may be ordered separately unless otherwise indicated.

ITEM	WEIGHT
Pole Top Bracket 60-120 mm (2.4-4.7 in) *Shipped with antenna*	21 kg (46.3 lbs)

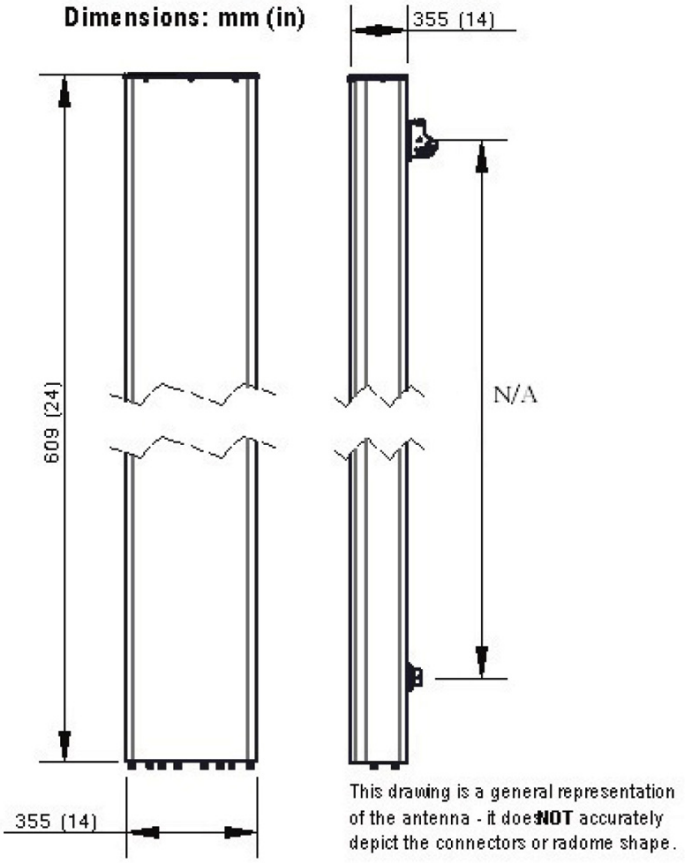
INSTALLATION

Please read all installation notes before installing product.

AISG	Always attach the antenna using all mounting points.
	Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

Omni Series Installation Instructions



NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check **External Document Links**.

For Radiating Patterns: Request pattern files