

# 12P-4L8M-A6-V6

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12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65°HPBW, 6x RET

- 2L4H band arrays are perfectly symmetrical inside the antenna ensuring pattern consistency across ports & provides capability for 4T4R (4x MIMO) on Low band and High band
- Symmetrical Low & High band arrays with consistent electrical performance
- Antenna with integrated pluggable RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (1)   Mid band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

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<b>Width</b>	499 mm   19.646 in
<b>Depth</b>	199 mm   7.835 in
<b>Length</b>	1490 mm   58.661 in
<b>Net Weight, antenna only</b>	20.7 kg   45.636 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W

## Electrical Specifications

	<b>R1,R2</b>	<b>R1,R2</b>	<b>R1,R2</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>
<b>Frequency Band, MHz</b>	<b>694–806</b>	<b>790–896</b>	<b>880–960</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2490</b>	<b>2500–2690</b>
<b>RF Port</b>	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
<b>Gain, dBi</b>	14.8	14.9	15.2	17.1	17.3	17.8	18.2	18.3
<b>Beamwidth, Horizontal, degrees</b>	63	60	58	69	67	66	60	57
<b>Beamwidth, Vertical, degrees</b>	11	9.8	9	6.2	5.9	5.6	4.8	4.1
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	16	16	16	16	16	16	16	16
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	250	250	250	200	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	422.0 N @ 150 km/h (94.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	197.0 N @ 150 km/h (44.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	748.0 N @ 150 km/h (168.2 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

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## Packaging and Weights

<b>Width, packed</b>	574 mm   22.598 in
<b>Depth, packed</b>	274 mm   10.787 in
<b>Length, packed</b>	1670 mm   65.748 in
<b>Weight, gross</b>	29 kg   63.934 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

## Included Products

BSAMNT-B95-01	-	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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