

# RRV4-65D-R6H4VB-V3



12-port sector antenna, 4x 698–960 and 8x 1710–2690 MHz, 65° HPBW, 6x RET

- 6 Independent Arrays in a single Radome housing
- 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
- Optimized radome design leading to market leading wind load performance
- Antenna with integrated pluggable RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<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 (2)   Mid band (4)
<b>Power Consumption, active state, maximum</b>	13 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

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## Dimensions

<b>Width</b>	499 mm   19.646 in
<b>Depth</b>	199 mm   7.835 in
<b>Length</b>	2580 mm   101.575 in
<b>Net Weight, without mounting kit</b>	33.2 kg   73.193 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (RET)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	ANxxxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	ANxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	ANxxxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	5	AISG1	ANxxxxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	6	AISG1	ANxxxxxxxxxxxxxxxxY4

(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration



## Electrical Specifications

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<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2690 MHz   698 – 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>Frequency Band, MHz</b>	<b>698–803</b>	<b>824–894</b>	<b>880–960</b>	<b>1710–1880</b>	<b>1920–2170</b>	<b>2300–2400</b>	<b>2490–2690</b>
<b>RF Port</b>	1-4	1-4	1-4	5-12	5-12	5-12	5-12
<b>Gain, dBi</b>	16.2	16.7	16.8	17	18	18.1	18.3
<b>Beamwidth, Horizontal, degrees</b>	66	60	58	71	66	58	60
<b>Beamwidth, Vertical, degrees</b>	8.6	7.7	7.3	6.7	6	5.3	5
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	16	16	17	18	20	19
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	26	28	29	27	31	29	27
<b>CPR at Boresight, dB</b>	22	24	23	18	17	19	21
<b>Isolation, Cross Polarization, dB</b>	26	26	26	26	26	26	26
<b>Isolation, Inter-band, dB</b>	26	26	26	26	26	26	26
<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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	250	250	250	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	760.0 N @ 150 km/h (170.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	368.0 N @ 150 km/h (82.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,348.0 N @ 150 km/h (303.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	574 mm   22.598 in
<b>Depth, packed</b>	324 mm   12.756 in
<b>Length, packed</b>	2700 mm   106.299 in

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**Weight, gross**

51.2 kg | 112.877 lb

## Regulatory Compliance/Certifications

**Agency**

**Classification**

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

UK-ROHS

Compliant

## Included Products

BSAMNT-B95-02

– 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, one middle bracket set and one bottom bracket set.

## \* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance

# BSAMNT-B95-02

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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, one middle bracket set and one bottom bracket set.

## Product Classification

**Product Type** Downtilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 114.3 mm | 4.5 in

**Compatible Diameter, minimum** 61 mm | 2.402 in

**Weight, net** 6 kg | 13.228 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 3

## Regulatory Compliance/Certifications

### Agency

CE  
ISO 9001:2015

### Classification

Compliant with the relevant CE product directives  
Designed, manufactured and/or distributed under this quality management system

