

# VV-65B-R2



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 2x RET. Two pairs of AISG Input and Output ports to separately and independently control the RET on each array for operator sharing applications.

## OBSOLETE

This product was discontinued on: November 30, 2023

### Replaced By:

VV-65B-R1

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET . The two high band arrays utilize a common tilt.

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<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>	PVC
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	4
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Mid band (2)
<b>Power Consumption, active state, maximum</b>	13 W
<b>Power Consumption, idle state, maximum</b>	2 W

# VV-65B-R2

**Protocol** 3GPP/AISG 2.0 (Single RET)

## Dimensions

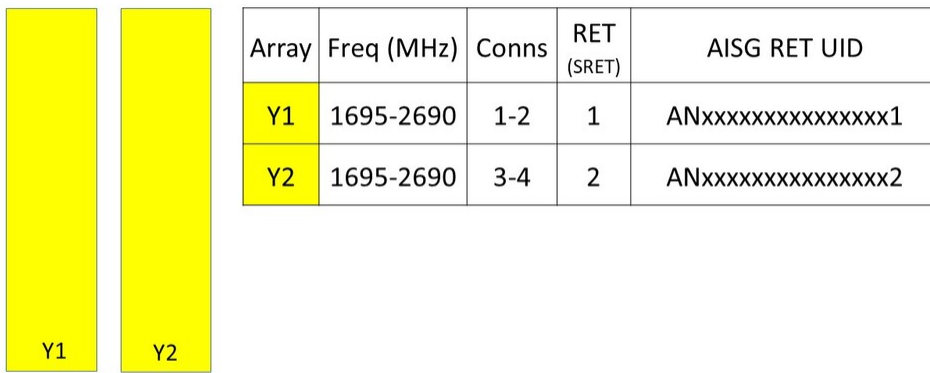
**Width** 307 mm | 12.087 in

**Depth** 118 mm | 4.646 in

**Length** 1786 mm | 70.315 in

**Net Weight, antenna only** 13.9 kg | 30.644 lb

## Array Layout



Left Bottom Right

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

## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	400 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
<b>Beamwidth, Horizontal, degrees</b>	66	65	61	57
<b>Beamwidth, Vertical, degrees</b>	5.4	4.8	4.3	4
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	18	19	18
<b>Front-to-Back Ratio at 180°, dB</b>	32	36	36	36
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	26	27	26
<b>CPR at Boresight, dB</b>	17	19	22	20
<b>CPR at Sector, dB</b>	10	10	8	9
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30
<b>Isolation, Inter-band, dB</b>	30	30	30	30

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<b>VSWR   Return loss, dB</b>	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>	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	300

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1695–1990</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	18.3	19	19.2	19.3
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.4	±0.4	±0.5
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.6	±1.8	±2.9	±4.2
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.4	±0.4	±0.3	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	16	16	15	13

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	696.0 N @ 150 km/h (156.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	163.0 N @ 150 km/h (36.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	410 mm   16.142 in
<b>Depth, packed</b>	270 mm   10.63 in
<b>Length, packed</b>	1955 mm   76.969 in
<b>Weight, gross</b>	24.5 kg   54.013 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



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## Included Products

- BSAMNT-3 – 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.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

# BSAMNT-3



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.

## Product Classification

**Product Type** Downtilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 6.2 kg | 13.669 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.4 kg | 14.11 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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