

# VV-65B-R1B



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and internal Bias-T on first highband port. The two highband arrays utilize a common tilt.

- The RET interface comprises one pair of AISG input/output ports

## OBSOLETE

This product was discontinued on: **March 31, 2021**

### Replaced By:

VV-65B-R1B-V2

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and internal Bias-T on first highband port. The two highband arrays utilize a common tilt.

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high 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>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1
<b>Internal RET</b>	High band (1)
<b>Power Consumption, idle state, maximum</b>	2 W

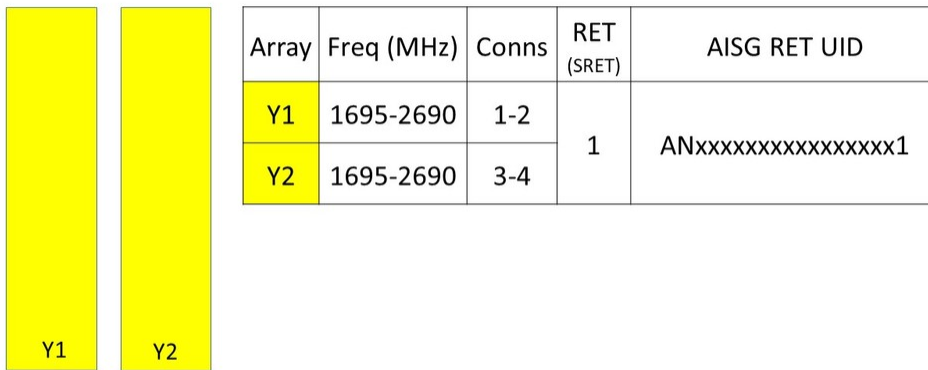
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<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	305 mm   12.008 in
<b>Depth</b>	118 mm   4.646 in
<b>Length</b>	1786 mm   70.315 in
<b>Net Weight, without mounting kit</b>	13.4 kg   29.542 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	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
<b>Gain, dBi</b>	18.3	18.9	19.4	19.1	19.5
<b>Beamwidth, Horizontal, degrees</b>	66	66	61	61	57
<b>Beamwidth, Vertical, degrees</b>	5.6	5.2	4.3	4.3	4.1
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	19	17	17	18
<b>Front-to-Back Ratio at 180°, dB</b>	32	34	35	35	36
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30
<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

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<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	350	350	350	350	300

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	17.9	18.5	19.1	19.1	19.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.4	±0.4	±0.4	±0.5
<b>Gain by Beam Tilt, average, dBi</b>	2°   17.8 7°   18.0 12°   17.8	2°   18.3 7°   18.6 12°   18.3	2°   19.0 7°   19.3 12°   18.6	2°   19.0 7°   19.3 12°   18.6	2°   19.2 7°   19.5 12°   18.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.9	±1.7	±2.6	±2.6	±4.3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.3	±0.3	±0.2	±0.2	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	16	16	15	15	13
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	25	27	27	26
<b>CPR at Boresight, dB</b>	16	18	21	21	19
<b>CPR at Sector, dB</b>	10	10	8	8	9

## 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 Loading @ Velocity, rear</b>	761.0 N @ 150 km/h (171.1 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 kg   52.911 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives

# VV-65B-R1B

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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



## 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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