

# VV-65A-R1B-V2



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and 1x SBT, 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-65A-R1B

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and 1x SBT, the two highband 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 body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC, UV resistant
<b>RF Connector Interface</b>	4.3-10 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>	1 W
<b>Power Consumption, normal conditions, maximum</b>	10 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

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## Dimensions

<b>Width</b>	305 mm   12.008 in
<b>Depth</b>	118 mm   4.646 in
<b>Length</b>	1390 mm   54.724 in
<b>Net Weight, without mounting kit</b>	11.1 kg   24.471 lb

## 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>	450 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	1695–1990	1920–2200	2300–2500	2490–2690
<b>Gain, dBi</b>	17.7	18.2	18.5	18.6
<b>Beamwidth, Horizontal, degrees</b>	66	66	63	62
<b>Beamwidth, Vertical, degrees</b>	6.7	6.1	5.4	5.2
<b>Beam Tilt, degrees</b>	0–12	0–12	0–12	0–12
<b>USLS (First Lobe), dB</b>	17	19	22	22
<b>Front-to-Back Ratio at 180°, dB</b>	31	32	29	31
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30
<b>Isolation, Inter-band, dB</b>	28	28	28	28
<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	250

## Electrical Specifications, BASTA

Frequency Band, MHz	1695–1990	1920–2200	2300–2500	2490–2690
<b>Gain by all Beam Tilts, average, dBi</b>	17.4	17.9	18.3	18.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.4	±0.4	±0.5
<b>Gain by Beam Tilt, average, dBi</b>	0° 17.3 6° 17.5 12° 17.3	0° 17.9 6° 18.0 12° 17.7	0° 18.0 6° 18.4 12° 18.1	0° 18.3 6° 18.4 12° 17.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.6	±1.9	±2.1	±2.8

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<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.4	±0.5	±0.2	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	17	19	17
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	27	26	26
<b>CPR at Boresight, dB</b>	17	19	21	20
<b>CPR at Sector, dB</b>	15	14	8	9

## Mechanical Specifications

<b>Mechanical Tilt Range</b>	0°–19°
<b>Wind Loading @ Velocity, frontal</b>	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	102.0 N @ 150 km/h (22.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	598.0 N @ 150 km/h (134.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	413 mm   16.26 in
<b>Depth, packed</b>	249 mm   9.803 in
<b>Length, packed</b>	1525 mm   60.039 in
<b>Weight, gross</b>	18.9 kg   41.667 lb

## Regulatory Compliance/Certifications

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



## Included Products

BSAMNT-F	–	Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.
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## \* Footnotes

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**Performance Note**

Severe environmental conditions may degrade optimum performance

# BSAMNT-F



Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

## Product Classification

**Product Type** Fixed tilt 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** 3.6 kg | 7.937 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 3.8 kg | 8.378 lb

## Regulatory Compliance/Certifications

Agency	Classification
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-F

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