

# RRVV2VV-6533B-R8



16-port sector/multibeam antenna 4x 694–960 MHz, 4x 1695–2690 MHz 65° HPBW and 8x 1710–2690 MHz 2x 2-Beam 33°HPBW, 8x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration

## General Specifications

<b>Antenna Type</b>	DualPol® multibeam
<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, high band</b>	12
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	16

## Remote Electrical Tilt (RET) Information

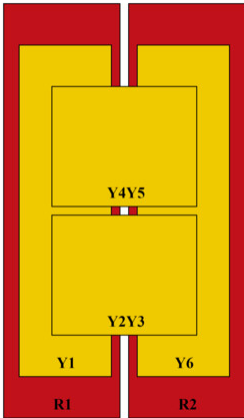
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (6)   Low band (2)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

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<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2100 mm   82.677 in
<b>Net Weight, antenna only</b>	46 kg   101.413 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxxxY4
Y5	1710-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxxxY5
Y6	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxxxxY6

(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>	1695 – 2690 MHz   1710 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,700 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–2180	2300–2690	1710–2180	2300–2690
<b>Gain, dBi</b>	14.6	14.9	15.2	16.9	18.6	18.2	19
<b>Beam Centers, Horizontal, degrees</b>						±27	±23
<b>Beamwidth, Horizontal, degrees</b>	75	66	65	72	56	34	27
<b>Beamwidth, Vertical, degrees</b>	11.4	10.1	9.4	6.3	5.1	8	6.3
<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>	16	16	15	21	21	16	18
<b>Front-to-Back Ratio at 180°, dB</b>	30	30	29	34	34	37	32
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Beam to Beam, dB</b>						17	17
<b>VSWR   Return loss, dB</b>	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	250	200	150	200	150

## Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–2180	2300–2690	1710–2180	2300–2690
<b>Gain by all Beam Tilts, average, dBi</b>	14.2	14.7	14.9	16.5	18.1	17.4	18.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.5	±0.5	±0.7	±0.7	±1.4	±1
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±7.2	±6.3	±3.9	±6.7	±4.2	±3.7	±3.1
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.1	±1	±1.1	±0.5	±0.5	±0.9	±0.7
<b>USLS, beampeak to 20° above beampeak, dB</b>	16	16	15	19	16	14	15

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<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	21	22	21	25	26	30	27
<b>CPR at Boresight, dB</b>	21	21	19	21	22	18	20
<b>CPR at Sector, dB</b>	14	9	10	9	5		
<b>CPR at 10 dB Horizontal Beamwidth, dB</b>						8	11

## Mechanical Specifications

<b>Effective Projective Area (EPA), frontal</b>	0.68 m <sup>2</sup>   7.319 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.21 m <sup>2</sup>   2.26 ft <sup>2</sup>
<b>Wind Loading @ Velocity, frontal</b>	728.0 N @ 150 km/h (163.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	873.0 N @ 150 km/h (196.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	501.0 N @ 150 km/h (112.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	2287 mm   90.039 in
<b>Weight, gross</b>	61.4 kg   135.364 lb

## Regulatory Compliance/Certifications

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



## Included Products

BSAMNT-4	–	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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# BSAMNT-4



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** 6.5 kg | 14.33 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

## 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

