

# RVV-65B-R3VB



6-port sector antenna, 2x 694-960 and 4x 1695-2690 MHz, 65° HPBW, 3x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## General Specifications

<b>Antenna Type</b>	Sector
<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>	Aluminum
<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>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

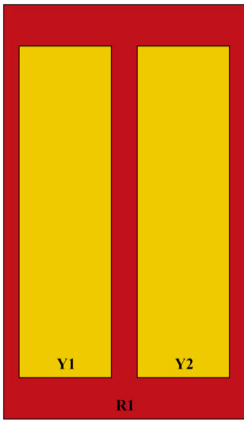
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10-30 Vdc
<b>Internal RET</b>	Low band (1)   Mid band (2)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state,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

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## Dimensions

<b>Width</b>	397 mm   15.63 in
<b>Depth</b>	157 mm   6.181 in
<b>Length</b>	1997 mm   78.622 in
<b>Net Weight, without mounting kit</b>	23.5 kg   51.809 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxY2

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
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<b>Operating Frequency Band</b>	1695 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2500–2690
<b>Gain, dBi</b>	15.3	16	16.4	17.5	18	18.4	18.3
<b>Beamwidth, Horizontal, degrees</b>	67	64	60	66	64	64	62
<b>Beamwidth, Vertical, degrees</b>	12.4	10.7	9.6	5.5	4.9	4.3	4
<b>Beam Tilt, degrees</b>	2–15	2–15	2–15	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	23	23	21	21	20	15
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	29	31	30	28	30	31	29
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	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	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	150	150	150	150

## Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2500–2690
<b>Gain by all Beam Tilts, average, dBi</b>	15	15.8	16.1	17	17.6	18	18
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.5	±0.3	±0.5	±0.6	±0.5	±0.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.4	±2	±1.6	±6.7	±4.2	±2.5	±5.3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1	±0.7	±0.6	±0.4	±0.3	±0.2	±0.3
<b>CPR at Boresight, dB</b>	27	28	27	27	24	27	27

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	535.0 N @ 150 km/h (120.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	290.0 N @ 150 km/h (65.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	830.0 N @ 150 km/h (186.6 lbf @ 150 km/h)

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**Wind Speed, maximum** 241 km/h (150 mph)

## Packaging and Weights

**Width, packed** 492 mm | 19.37 in  
**Depth, packed** 277 mm | 10.906 in  
**Length, packed** 2197 mm | 86.496 in  
**Weight, gross** 34 kg | 74.957 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



## Included Products

BSAMNT-B95-03 – 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