

# RRVV-65B-R2VB-V2



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

- Antenna design optimized to offer high gain performances
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Mid band

## 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>	4
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

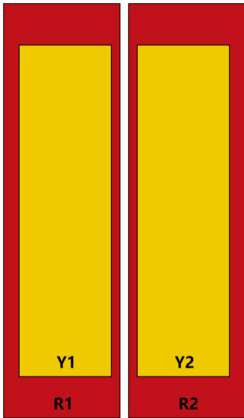
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (1)   Mid band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state,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

## Dimensions

# RRVV-65B-R2VB-V2

<b>Width</b>	499 mm   19.646 in
<b>Depth</b>	199 mm   7.835 in
<b>Length</b>	2100 mm   82.677 in
<b>Net Weight, antenna only</b>	33.5 kg   73.855 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°			
Y1	1695-2690	5 - 6	65°	2	AISG1	CPxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°			

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

## Port Configuration



## Electrical Specifications

# RRVV-65B-R2VB-V2

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W

## Electrical Specifications

	<b>R1,R2</b>	<b>R1,R2</b>	<b>R1,R2</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>
<b>Frequency Band, MHz</b>	<b>694–806</b>	<b>790–890</b>	<b>880–960</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2400</b>	<b>2500–2690</b>
<b>RF Port</b>	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
<b>Gain, dBi</b>	16	16.5	16.8	17.1	17.4	17.5	17.5	18.3
<b>Beamwidth, Horizontal, degrees</b>	65	66	68	65	64	69	67	55
<b>Beamwidth, Vertical, degrees</b>	9.8	8.8	8.1	6.7	6.3	6	5.3	4.8
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	20	18	16	18	20	19	19
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	26	29	27	28	28	28	27	27
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25	25
<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	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	250	250	250	200	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	608.0 N @ 150 km/h (136.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,078.0 N @ 150 km/h (242.3 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	570 mm   22.441 in
<b>Depth, packed</b>	275 mm   10.827 in
<b>Length, packed</b>	2375 mm   93.504 in
<b>Weight, gross</b>	45.2 kg   99.649 lb

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## Regulatory Compliance/Certifications

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

## Included Products

BSAMNT-B92-08	–	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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