

# RRVV-65B-R4VB-V8



8-port sector antenna, 4x 698–960 MHz and 4x 1710–2690 MHz, 65° HPBW, 4x RET

- Antenna with tilt scale indicators and integrated pluggable RET
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<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 (2)   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)

## Dimensions

<b>Width</b>	446 mm   17.559 in
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<b>Depth</b>	165 mm   6.496 in
<b>Length</b>	1997 mm   78.622 in
<b>Net Weight, without mounting kit</b>	29.5 kg   65.036 lb

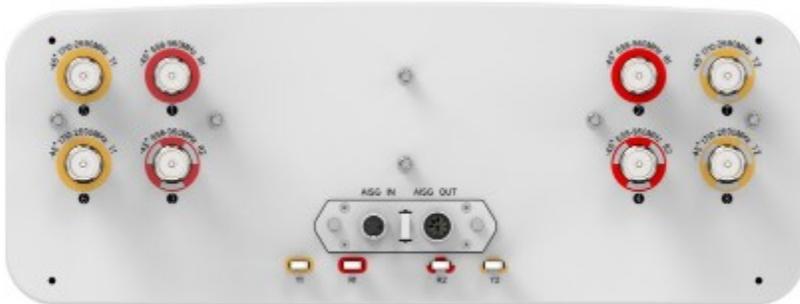
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (RET)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	ANxxxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	ANxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	ANxxxxxxxxxxxxxxxxY2

Colors of colored boxes are not true depictions of array slots

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2690 MHz   698 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W

## Electrical Specifications

R1,R2      R1,R2      R1,R2      Y1,Y2      Y1,Y2      Y1,Y2      Y1,Y2

# RRVV-65B-R4VB-V8

Frequency Band, MHz	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Beamwidth, Horizontal, degrees	63	60	58	63	61	60	59
Beamwidth, Vertical, degrees	11	10.2	9.4	7.2	6.6	5.8	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	15	15	15	15	15
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	21	23	23	22	22	23	23
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
VSWR   Return loss, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	400	400	400	250	250	250	250

## Electrical Specifications, BASTA

Frequency Band, MHz	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	14	14.4	14.8	16.6	16.8	17	17.1
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.6	±0.6	±0.5	±0.5	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±7	±7	±7	±7	±6	±6	±6
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.9	±0.8	±0.7	±0.6	±0.6	±0.6

## Mechanical Specifications

Wind Loading @ Velocity, frontal	846.0 N @ 150 km/h (190.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	241.0 N @ 150 km/h (54.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	855.0 N @ 150 km/h (192.2 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

## Packaging and Weights

Width, packed	520 mm   20.472 in
Depth, packed	270 mm   10.63 in
Length, packed	2170 mm   85.433 in

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**Weight, gross**

38.8 kg | 85.539 lb

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

UK-ROHS

**Classification**

Designed, manufactured and/or distributed under this quality management system

Compliant

## \* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance