

# RVV-65D-R3VB-V3



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
- 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

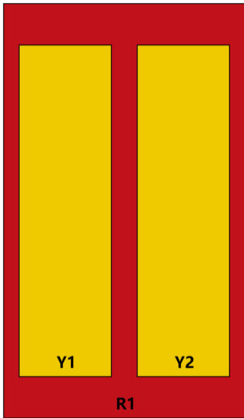
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (1)   Mid band (2)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state,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

## Dimensions

# RVV-65D-R3VB-V3

<b>Width</b>	397 mm   15.63 in
<b>Depth</b>	157 mm   6.181 in
<b>Length</b>	2497 mm   98.307 in
<b>Net Weight, antenna only</b>	28 kg   61.729 lb

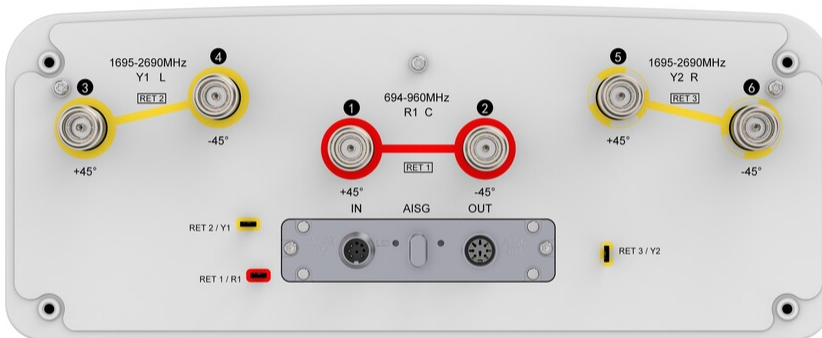
## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY2

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

## Port Configuration



# RVV-65D-R3VB-V3

## Electrical Specifications

<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</b>	<b>R1</b>	<b>R1</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>	<b>Y1,Y2</b>
<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>790–894</b>	<b>890–960</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>RF Port</b>	1,2	1,2	1,2	3-6	3-6	3-6	3-6
<b>Gain, dBi</b>	16.6	17.1	17.3	17.5	18.2	18.5	18.6
<b>Beamwidth, Horizontal, degrees</b>	65	62	60	62	62	57	56
<b>Beamwidth, Vertical, degrees</b>	8.6	7.8	7.3	6.1	5.5	5	4.8
<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>	19	19	18	17	20	21	20
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	30	32	31	30	29	29	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>	-153	-153	-153	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	250	250	250	200	200	200	200

## Electrical Specifications, BASTA

	<b>698–806</b>	<b>790–894</b>	<b>890–960</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
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<b>Gain by all Beam Tilts, average, dBi</b>	16.4	16.9	17.1	17.2	17.7	18.1	18.4
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.3	±0.3	±0.7	±0.6	±0.5	±0.3
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2	±2	±2	±4	±4	±3	±3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.4	±0.5	±0.2	±0.5	±0.5	±0.3	±0.2
<b>CPR at Boresight, dB</b>	24	25	25	22	24	25	24

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## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	669.0 N @ 150 km/h (150.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	399.0 N @ 150 km/h (89.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,080.0 N @ 150 km/h (242.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	492 mm   19.37 in
<b>Depth, packed</b>	277 mm   10.906 in
<b>Length, packed</b>	2697 mm   106.181 in
<b>Weight, gross</b>	40.4 kg   89.067 lb

## 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



## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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