

# RRV3-65B-R5VB



10-port sector antenna, 4x 698–960 MHz and 6x 1710–2690 MHz, 65° HPBW, 5x 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>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	6
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	10

## 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 (3)
<b>Power Consumption, active state, maximum</b>	13 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>	1999 mm   78.701 in
<b>Net Weight, without mounting kit</b>	32 kg   70.548 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
Y3	1710-2690	9 - 10	5	AISG1	ANxxxxxxxxxxxxxxxxY3

(Size 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

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## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y3	Y1-Y3	Y1-Y3	Y1-Y3
<b>Frequency Band, MHz</b>	<b>698-803</b>	<b>824-894</b>	<b>880-960</b>	<b>1710-1990</b>	<b>1920-2170</b>	<b>2300-2400</b>	<b>2490-2690</b>
<b>RF Port</b>	1-4	1-4	1-4	5-10	5-10	5-10	5-10
<b>Beamwidth, Horizontal, degrees</b>	64	63	60	68	66	60	60
<b>Beamwidth, Vertical, degrees</b>	11.6	10.1	9.6	6.6	6	5.3	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>	16	16	16	16	17	17	17
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	27	27	28	28	28	29	29
<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>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	200	200	200	200

## Electrical Specifications, BASTA

	698-803	824-894	880-960	1710-1990	1920-2170	2300-2400	2490-2690
<b>Frequency Band, MHz</b>	<b>698-803</b>	<b>824-894</b>	<b>880-960</b>	<b>1710-1990</b>	<b>1920-2170</b>	<b>2300-2400</b>	<b>2490-2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.6	15	15.4	16.8	17.1	17.4	17.6
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±0.6	±0.6	±0.9	±0.9	±0.8	±0.8
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±6	±7	±7	±8	±8	±8	±7
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.9	±0.9	±0.8	±0.6	±0.6	±0.5	±0.5

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	847.0 N @ 150 km/h (190.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	242.0 N @ 150 km/h (54.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	857.0 N @ 150 km/h (192.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

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<b>Width, packed</b>	520 mm   20.472 in
<b>Depth, packed</b>	270 mm   10.63 in
<b>Length, packed</b>	2170 mm   85.433 in
<b>Weight, gross</b>	42.5 kg   93.696 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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