

# RRV4-65B-R6H4-V6



12-port sector antenna, 4x 698-960 and 8x 1710- 2690 MHz, 65° HPBW, 6x RET

- Antenna with tilt scale indicators and integrated pluggable RET
- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on 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>	Low loss circuit board
<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>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## 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>Internal RET</b>	Low band (2)   Mid band (4)
<b>Protocol</b>	3GPP/AISG 2.0

## Dimensions

<b>Width</b>	469 mm   18.465 in
<b>Depth</b>	198 mm   7.795 in
<b>Length</b>	1950 mm   76.772 in

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Net Weight, without mounting kit

25.4 kg | 55.997 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (S&T)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxY4

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

## 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>	1,000 W

## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
<b>Frequency Band, MHz</b>	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
<b>RF Port</b>	1-4	1-4	1-4	5-12	5-12	5-12	5-12
<b>Beamwidth, Horizontal,</b>	65	63	62	67	63	62	59

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degrees

<b>Beamwidth, Vertical, degrees</b>	10.8	9.6	8.9	6.8	6	5.1	4.4
<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>	15	15	15	15	15	15	15
<b>Front-to-Back Ratio at 180°, dB</b>	23	23	23	24	24	24	25
<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

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	521.0 N @ 150 km/h (117.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	554.0 N @ 150 km/h (124.5 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Regulatory Compliance/Certifications

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

## \* Footnotes

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