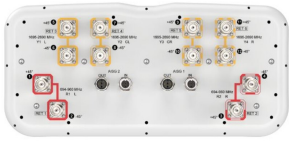


# RRV4-65B-R6N43



12-port sector antenna, 4 x 694–960 and 8x 1695-2690 MHz, 65° HPBW, 6x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Antenna shape optimized for wind load reduction

## 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>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>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## Remote Electrical Tilt (RET) Information

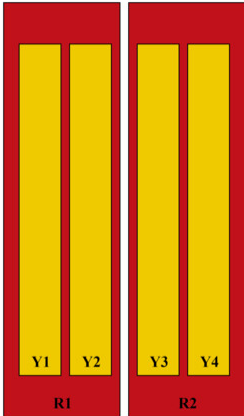
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (2)   Mid band (4)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

# RRV4-65B-R6N43

<b>Width</b>	430 mm   16.929 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2000 mm   78.74 in
<b>Net Weight, antenna only</b>	35.2 kg   77.603 lb

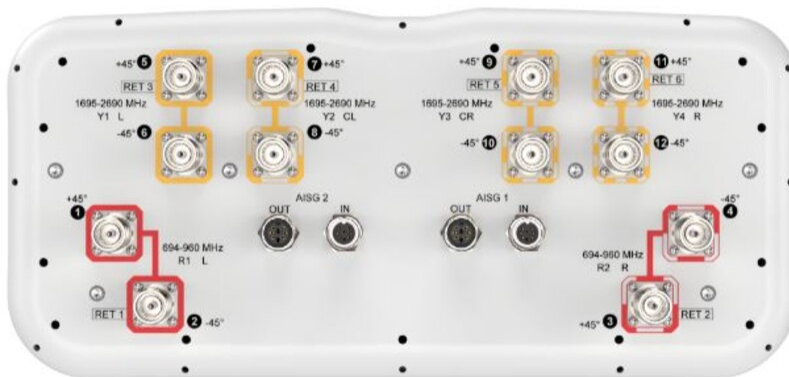
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPXXXXXXXXXXXXR1
R2	694-960	3 - 4	2	AISG1	CPXXXXXXXXXXXXR2
Y1	1695-2690	5 - 6	3	AISG1	CPXXXXXXXXXXXXY1
Y2	1695-2690	7 - 8	4	AISG1	CPXXXXXXXXXXXXY2
Y3	1695-2690	9 - 10	5	AISG1	CPXXXXXXXXXXXXY3
Y4	1695-2690	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
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# RRV4-65B-R6N43

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

## Electrical Specifications

	<b>R1,R2</b>	<b>R1,R2</b>	<b>R1,R2</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</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>	1-4	1-4	1-4	5-12	5-12	5-12	5-12
<b>Gain at Mid Tilt, dBi</b>	14.2	14.8	15	16.5	17.5	18.4	18.5
<b>Beamwidth, Horizontal, degrees</b>	66	59	58	68	65	59	59
<b>Beamwidth, Vertical, degrees</b>	10.6	9.6	8.8	5.9	5.3	4.8	4.5
<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>	18	16	14	13	14	17	17
<b>Front-to-Back Ratio at 180°, dB</b>	30	28	30	32	34	34	35
<b>Isolation, Cross Polarization, dB</b>	27	27	27	27	27	27	27
<b>Isolation, Inter-band, dB</b>	26	26	26	26	26	26	26
<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 at 50°C, maximum, watts</b>	300	300	300	250	250	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>
<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>Gain by all Beam Tilts, average, dBi</b>	14.1	14.6	14.9	16.4	17.4	18.2	18.4
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±0.5	±0.4	±0.6	±0.8	±0.5	±0.5
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±10	±4	±5	±6	±7	±5	±3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.8	±0.6	±0.6	±0.5	±0.5	±0.3	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	16	14	13	14	16	16
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	22	21	22	27	26	28	28

# RRV4-65B-R6N43

<b>CPR at Boresight, dB</b>	26	23	24	20	21	22	23
<b>CPR at Sector, dB</b>	11	8	7	7	6	2	4

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	530 mm   20.866 in
<b>Depth, packed</b>	349 mm   13.74 in
<b>Length, packed</b>	2172 mm   85.512 in
<b>Weight, gross</b>	47.8 kg   105.381 lb

## Regulatory Compliance/Certifications

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



## Included Products

BSAMNT-3	–	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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