

# 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

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

### Remote Electrical Tilt (RET) Information

CommRET v2
8-pin DIN Female   8-pin DIN Male
2 female   2 male
10-30 Vdc
Low band (2)   Mid band (4)
8 W
1 W
3GPP/AISG 2.0 (Single RET)
2 2 1 1 1

#### Dimensions

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### RRV4-65B-R6N43

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

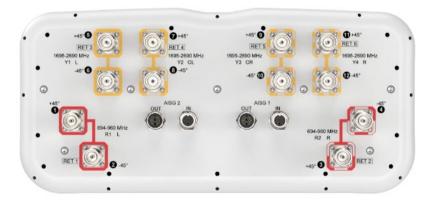
### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxXXXXXXXY2
¥3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
¥4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxXY4

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

### Port Configuration



### **Electrical Specifications**

#### Impedance

50 ohm

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### RRV4-65B-R6N43

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

### **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-806	790-894	890-960	1695-1995	1920-2300	2300-2500	2490-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12
Gain at Mid Tilt, dBi	14.2	14.8	15	16.5	17.5	18.4	18.5
Beamwidth, Horizontal, degrees	66	59	58	68	65	59	59
Beamwidth, Vertical, degrees	10.6	9.6	8.8	5.9	5.3	4.8	4.5
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	16	14	13	14	17	17
Front-to-Back Ratio at 180°, dB	30	28	30	32	34	34	35
Isolation, Cross Polarization, dB	27	27	27	27	27	27	27
Isolation, Inter-band, dB	26	26	26	26	26	26	26
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 at 50°C, maximum, watts	300	300	300	250	250	200	200

### Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960	1695-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	14.1	14.6	14.9	16.4	17.4	18.2	18.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.4	±0.6	±0.8	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±10	±4	±5	±6	±7	±5	±3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.6	±0.5	±0.5	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	16	14	13	14	16	16
Front-to-Back Total Power at 180° ± 30°, dB	22	21	22	27	26	28	28

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## RRV4-65B-R6N43

CPR at Boresight, dB	26	23	24	20	21	22	23	
CPR at Sector, dB	11	8	7	7	6	2	4	
Mechanical Specifi	cations							
Wind Loading @ Velocity, frontal			494.0 N @ 15	0 km/h (111.1	lbf @ 150 km	ı/h)		
Wind Loading @ Velocity, lateral			266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)					
Wind Loading @ Velocity, maximum			780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)					
Wind Loading @ Velocity, rear			319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)					
Wind Speed, maximum			241 km/h (15	0 mph)				

### Packaging and Weights

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

### Regulatory Compliance/Certifications

Agency	Classification
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
9001:2015	

### 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.

### \* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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