

# RR-65B-R2VB



4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- 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>	Single band
<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, low band</b>	4
<b>RF Connector Quantity, total</b>	4

## 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)
<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)

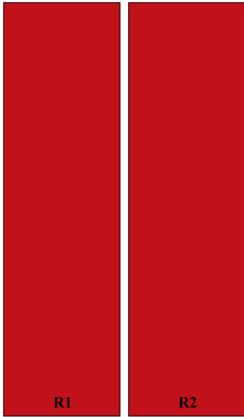
## Dimensions

<b>Width</b>	467 mm   18.386 in
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<b>Depth</b>	167 mm   6.575 in
<b>Length</b>	1997 mm   78.622 in
<b>Net Weight, antenna only</b>	24.5 kg   54.013 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
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
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<b>Operating Frequency Band</b>	694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W

## Electrical Specifications

	<b>R1,R2</b>	<b>R1,R2</b>	<b>R1,R2</b>
<b>Frequency Band, MHz</b>	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>
<b>RF Port</b>	1,2,3,4	1,2,3,4	1,2,3,4
<b>Gain, dBi</b>	15.4	15.5	16.1
<b>Beamwidth, Horizontal, degrees</b>	66	64	66
<b>Beamwidth, Vertical, degrees</b>	11.2	9.7	9
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	18	19
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	27	29	27
<b>Isolation, Cross Polarization, dB</b>	26	26	26
<b>Isolation, Inter-band, dB</b>	26	26	26
<b>VSWR   Return loss, dB</b>	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
<b>Input Power per Port, maximum, watts</b>	300	300	300

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15	15.3	15.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.3	±0.2
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±4	±4	±5
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1	±0.5	±0.5
<b>CPR at Boresight, dB</b>	25	25	25
<b>CPR at Sector, dB</b>	13	11	11

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	820.0 N @ 150 km/h (184.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	308.0 N @ 150 km/h (69.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

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## Packaging and Weights

<b>Width, packed</b>	542 mm   21.339 in
<b>Depth, packed</b>	277 mm   10.906 in
<b>Length, packed</b>	2197 mm   86.496 in
<b>Weight, gross</b>	36 kg   79.366 lb

## Regulatory Compliance/Certifications

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

## Included Products

BSAMNT-B95-03	-	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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