

# RR-65B-R2



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

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- 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>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<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>	8 W
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	1828 mm   71.969 in
<b>Net Weight, antenna only</b>	33 kg   72.752 lb

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## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2

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

Left Right  
Bottom

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	694 – 960 MHz
<b>Polarization</b>	±45°

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Total Input Power, maximum 900 W @ 50 °C

## 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>	1-4	1-4	1-4
<b>Gain at Mid Tilt, dBi</b>	14.2	14.7	15.4
<b>Beamwidth, Horizontal, degrees</b>	67	64	58
<b>Beamwidth, Vertical, degrees</b>	12.1	10.8	10.1
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	21	24
<b>Front-to-Back Ratio at 180°, dB</b>	31	33	29
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	21	21	22
<b>Isolation, Cross Polarization, dB</b>	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25
<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 at 50°C, maximum, watts</b>	300	300	300

## Electrical Specifications, BASTA

	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>
<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>	14.2	14.6	15.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.6	±0.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±4	±4	±3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1	±0.9	±0.6
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	18	16
<b>CPR at Boresight, dB</b>	22	23	25
<b>CPR at Sector, dB</b>	10	9	6

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	711.0 N @ 150 km/h (159.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	229.0 N @ 150 km/h (51.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	998.0 N @ 150 km/h (224.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	563.0 N @ 150 km/h (126.6 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>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	2015 mm   79.331 in
<b>Weight, gross</b>	46.7 kg   102.956 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.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance