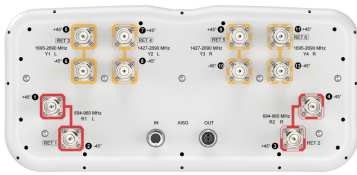


# RRZZVV-65B-R6NV4



12-port sector antenna, 4x 694-960, 4x 1427-2690 and 4x 1695-2690 MHz, 65° HPBW, 6x RET

- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- Reduces the amount of aluminum used to minimize CO2 release
- GREEN and High Gain Antenna Solution
- High radiation and pattern efficiency for improved coverage area, capacity or reduced power consumption for a given area

## 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>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>	1 female   1 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>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	430 mm   16.929 in
<b>Depth</b>	197 mm   7.756 in

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<b>Length</b>	2100 mm   82.677 in
<b>Net Weight, antenna only</b>	36.6 kg   80.689 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1427 – 2690 MHz   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>Y2,Y3</b>	<b>Y2,Y3</b>	<b>Y2,Y3</b>	<b>Y2,Y3</b>	<b>Y2,Y3</b>
<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>790–894</b>	<b>890–960</b>	<b>1427–1518</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>RF Port</b>	1,2,3,4	1,2,3,4	1,2,3,4	7,8,9,10	7,8,9,10	7,8,9,10	7,8,9,10	7,8,9,10
<b>Beamwidth, Horizontal, degrees</b>	64	60	57	75	65	63	61	58
<b>Beamwidth, Vertical, degrees</b>	10.4	9.3	8.5	7.2	5.8	5.2	4.3	4.1
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	15	16	17	18	15	17	14	16
<b>Front-to-Back Ratio at 180°, dB</b>	25	30	30	33	33	33	33	32
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	21	22	23	24	24	28	27
<b>Isolation, Cross Polarization, dB</b>	25	25	25	26	26	26	26	26
<b>Isolation, Inter-band, dB</b>	25	25	25	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	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	250	250	250	200	200

## Electrical Specifications, BASTA

	<b>698–806</b>	<b>790–894</b>	<b>890–960</b>	<b>1427–1518</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>1427–1518</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>	14.4	15.1	15.3	15.6	17.2	18.1	19.2	19.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±0.5	±0.3	±0.5	±0.7	±0.8	±0.3	±0.3
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±10	±6	±5	±7	±9	±4	±3	±4

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<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.7	±0.6	±0.4	±0.4	±0.5	±0.6	±0.2	±0.1
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	15	13	14	14	15	14	13
<b>CPR at Boresight, dB</b>	18	18	19	18	19	18	19	21

## Electrical Specifications

	<b>Y1,Y4</b>	<b>Y1,Y4</b>	<b>Y1,Y4</b>	<b>Y1,Y4</b>
<b>Frequency Band, MHz</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>RF Port</b>	5,6,11,12	5,6,11,12	5,6,11,12	5,6,11,12
<b>Beamwidth, Horizontal, degrees</b>	67	63	64	62
<b>Beamwidth, Vertical, degrees</b>	6.1	5.3	4.6	4.2
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	20	20	17	18
<b>Front-to-Back Ratio at 180°, dB</b>	33	28	31	32
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	26	27	27
<b>Isolation, Cross Polarization, dB</b>	27	27	27	27
<b>Isolation, Inter-band, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200

## Electrical Specifications, BASTA

	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>Frequency Band, MHz</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>	17.2	18.1	18.5	18.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.9	±0.5	±0.3	±0.3
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±6	±6	±5	±6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.7	±0.4	±0.4	±0.1
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	15	16	16
<b>CPR at Boresight, dB</b>	21	22	21	19

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## Mechanical Specifications

<b>BASTA Version, mechanical</b>	BASTA v12
<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>	2272 mm   89.449 in
<b>Weight, gross</b>	46.6 kg   102.735 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-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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## \* Footnotes

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