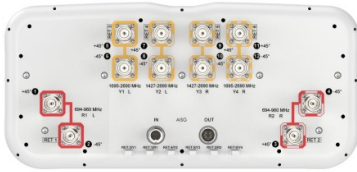


# RRZZVV-65A-R6NV3



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

- High radiation and pattern efficiency for improved coverage area, capacity or reduced power consumption for a given area
- Reduces the amount of aluminum used to minimize CO2 release
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- SEED® antenna providing high gain and improved efficiency

## 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

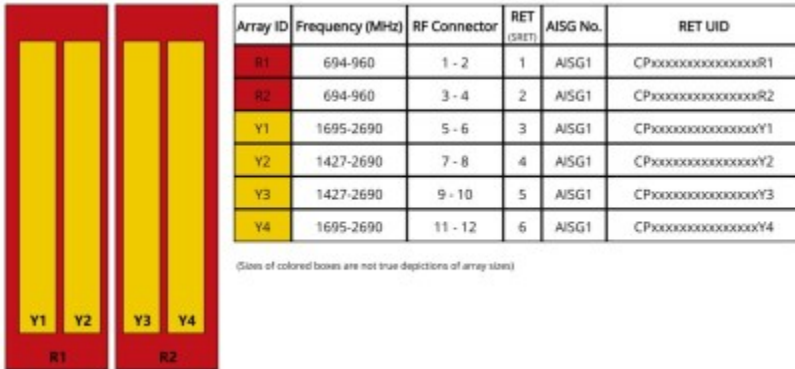
<b>Width</b>	430 mm   16.929 in
<b>Depth</b>	197 mm   7.756 in

# RRZZVV-65A-R6NV3

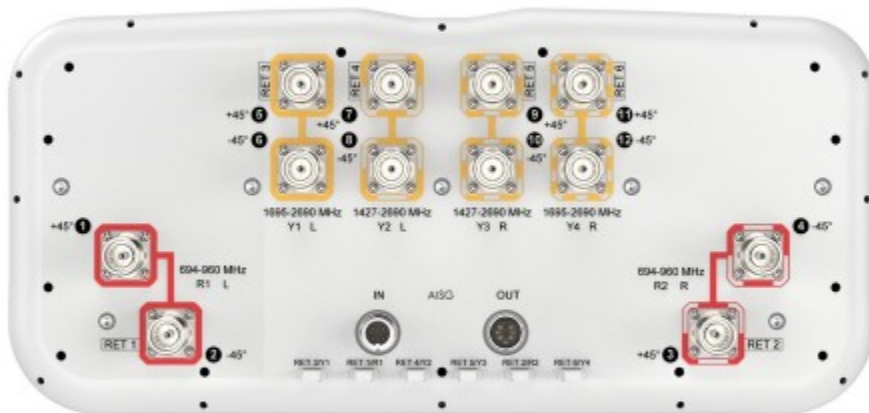
**Length** 1599 mm | 62.953 in

**Net Weight, antenna only** 31.5 kg | 69.446 lb

## Array Layout



## Port Configuration



# RRZZVV-65A-R6NV3

## 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>	1,200 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>	1-4	1-4	1-4	7-10	7-10	7-10	7-10	7-10
<b>Gain at Mid Tilt, dBi</b>	13.5	14	14.2	15.6	17	18	19	19.4
<b>Beamwidth, Horizontal, degrees</b>	66	58	53	72	74	67	60	56
<b>Beamwidth, Vertical, degrees</b>	13.3	12.2	11.3	8.2	6.5	5.8	5.1	4.7
<b>Beam Tilt, degrees</b>	2–16	2–16	2–16	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	17	19	19	15	14	13	18
<b>Front-to-Back Ratio at 180°, dB</b>	26	27	26	26	32	33	36	35
<b>CPR at Boresight, dB</b>	21	22	21	18	21	18	18	20
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25	25
<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

	<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>Gain at Mid Tilt, dBi</b>	16.9	17.5	18.5	18.7
<b>Beamwidth, Horizontal, degrees</b>	74	74	68	64
<b>Beamwidth, Vertical, degrees</b>	6.5	5.9	5.1	4.7
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12

# RRZZVV-65A-R6NV3

<b>USLS (First Lobe), dB</b>	15	16	16	21
<b>Front-to-Back Ratio at 180°, dB</b>	29	30	31	32
<b>CPR at Boresight, dB</b>	24	22	18	16
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25
<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	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200

## Mechanical Specifications

<b>BASTA Version, mechanical</b>	BASTA v12
<b>Wind Loading @ Velocity, frontal</b>	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	203.0 N @ 150 km/h (45.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	594.0 N @ 150 km/h (133.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	243.0 N @ 150 km/h (54.6 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>	1771 mm   69.724 in
<b>Weight, gross</b>	40.5 kg   89.287 lb

## Regulatory Compliance/Certifications

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

## Included Products

BSAMNT-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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## \* Footnotes

# RRZZVV-65A-R6NV3

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**Performance Note**

Severe environmental conditions may degrade optimum performance