

# RRZZ-65D-R4N47V6



8-port sector antenna, 4x 694-960 and 4x 1427- 2690 MHz, 65° HPBW, 4x 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
- Retractable tilt indicator rods

## 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>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	8

## 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>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (2)   Mid 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>	468 mm   18.425 in
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<b>Depth</b>	228 mm   8.976 in
<b>Length</b>	2769 mm   109.016 in
<b>Net Weight, without mounting kit</b>	37 kg   81.571 lb

## Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1or2	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1or2	CPxxxxxxxxxxxxxxxxR2
Y1	1427-2690	5 - 6	3	AISG1or2	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1or2	CPxxxxxxxxxxxxxxxxY2

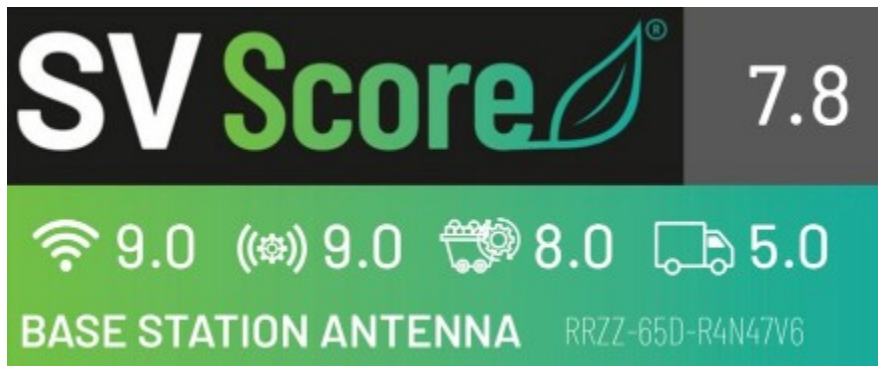
(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration



## Logo Image

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1427 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,200 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
<b>RF Port</b>	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
<b>Gain at Mid Tilt, dBi</b>	16.5	17.2	17.5	17.3	18.6	18.8	19.5	19.8
<b>Beamwidth, Horizontal, degrees</b>	72	65	61	63	61	67	63	59
<b>Beamwidth, Vertical, degrees</b>	7.5	6.8	6.1	7.5	6.1	5.4	5	4.6
<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>	18	17	16	19	23	20	18	18
<b>Front-to-Back Ratio at 180°, dB</b>	34	34	32	31	39	36	37	39
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	22	24	24	22	30	31	33	33
<b>CPR at Boresight, dB</b>	22	26	25	20	20	15	15	18
<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,</b>	300	300	300	250	250	250	200	200

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## maximum, watts

## Mechanical Specifications

<b>BASTA Version, mechanical</b>	BASTA v12
<b>Wind Loading @ Velocity, frontal</b>	547.0 N @ 150 km/h (123.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	470.0 N @ 150 km/h (105.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	976.0 N @ 150 km/h (219.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	583.0 N @ 150 km/h (131.1 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	566 mm   22.283 in
<b>Depth, packed</b>	380 mm   14.961 in
<b>Length, packed</b>	3001 mm   118.15 in
<b>Weight, gross</b>	52 kg   114.64 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

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