

# ZZVV-65A-R4N43



8-port sector antenna, 4x 1427-2690, and 4x 1695-2690 MHz 65° HPBW, 4 x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

## General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	8
RF Connector Quantity, total	8

## Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	2 female   2 male
Input Voltage	10–30 Vdc
Internal RET	Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

## Dimensions

Width	430 mm   16.929 in
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Depth	197 mm   7.756 in
Length	1546 mm   60.866 in
Net Weight, antenna only	26.3 kg   57.982 lb

## Array Layout

Y1

Y2

Y3

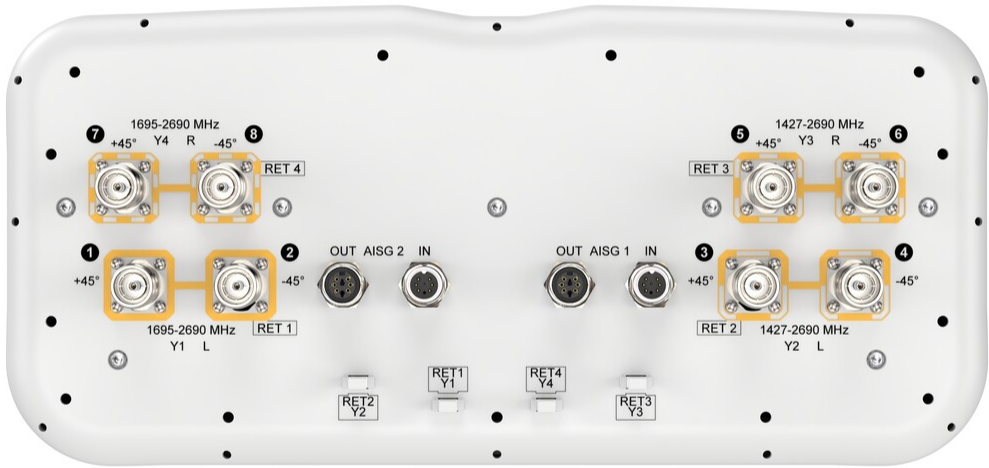
Y4

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	1	AISG1	CPxxxxxxxxxxxxY1
Y2	1427-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxY2
Y3	1427-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxY3
Y4	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxY4

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

## Port Configuration

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## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz   1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

## Electrical Specifications

	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
RF Port	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain at Mid Tilt, dBi	15.5	16.8	17.3	18.1	18.6
Beamwidth, Horizontal,	73	73	74	69	62

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degrees					
Beamwidth, Vertical, degrees	7.9	6.6	5.9	5.1	4.8
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	18	17	19	18
Front-to-Back Ratio at 180°, dB	35	35	34	31	31
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26	25
Isolation, Cross Polarization, dB	26	26	26	26	26
Isolation, Inter-band, dB	26	26	26	26	26
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

## Electrical Specifications

	Y1,Y4	Y1,Y4	Y1,Y4	Y1,Y4
Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
RF Port	1,2,7,8	1,2,7,8	1,2,7,8	1,2,7,8
Gain at Mid Tilt, dBi	16.7	17.6	18	18.4
Beamwidth, Horizontal, degrees	72	67	67	62
Beamwidth, Vertical, degrees	6.2	5.5	4.9	4.7
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	18	19	19
Front-to-Back Ratio at 180°, dB	32	33	32	32
Front-to-Back Total Power at 180° ± 30°, dB	26	27	25	25
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	26	27	27	27
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200

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## Packaging and Weights

Width, packed	530 mm   20.866 in
Depth, packed	349 mm   13.74 in
Length, packed	1718 mm   67.638 in
Weight, gross	38.2 kg   84.216 lb

## Regulatory Compliance/Certifications

Agency	Classification
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.
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## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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