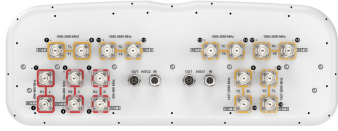


R3ZZV4-65B-R9



18-port sector antenna, 6x 694-960, 4x 1427-2690 and 8x 1695-2690 MHz, 65° HPBW, 9xRET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

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	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	18

Remote Electrical Tilt (RET) Information

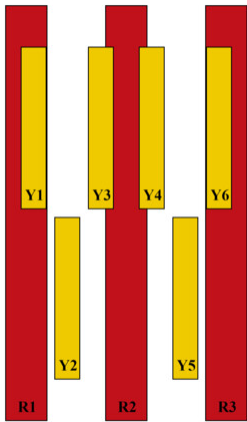
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (3) Mid band (6)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

Dimensions

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Width	579 mm 22.795 in
Depth	212 mm 8.346 in
Length	2100 mm 82.677 in
Net Weight, antenna only	47.9 kg 105.601 lb

Array Layout

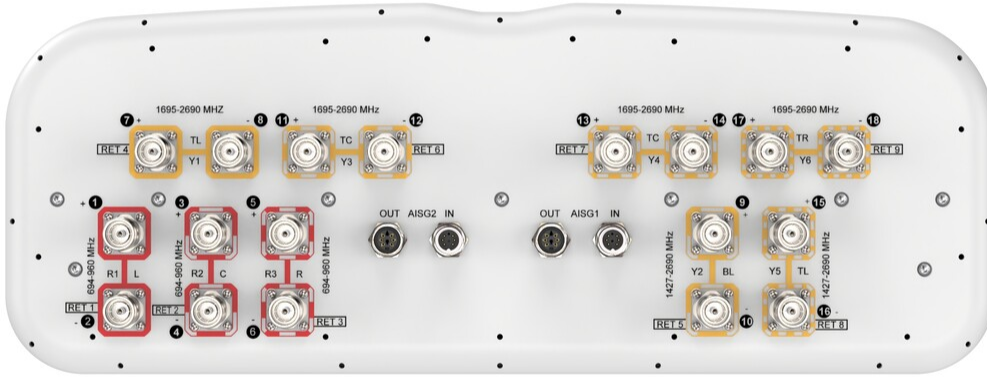


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxR3
Y1	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxxxY4
Y5	1427-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxxxxY5
Y6	1695-2690	17 - 18	9	AISG1	CPxxxxxxxxxxxxxxxxY6

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

Port Configuration

R3ZZV4-65B-R9



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,500 W @ 50 °C

Electrical Specifications

	R1,R3	R1,R3	R1,R3	R2	R2	R2
Frequency Band, MHz	698–806	790–896	890–960	698–806	790–896	890–960
RF Port	1,2,5,6	1,2,5,6	1,2,5,6	3,4	3,4	3,4
Gain at Mid Tilt, dBi	13.8	14.4	14.5	12.7	13.9	14.8

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Beamwidth, Horizontal, degrees	64	62	58	63	58	52
Beamwidth, Vertical, degrees	10.3	9.2	8.6	11.2	10.6	10
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	16	13	14	18
Front-to-Back Ratio at 180°, dB	28	26	25	24	26	30
Front-to-Back Total Power at 180° ± 30°, dB	23	22	21	21	22	27
CPR at Boresight, dB	22	22	22	16	19	22
Isolation, Cross Polarization, typical, dB	25	25	25	25	25	25
Isolation, Inter-band, typical, dB	25	25	25	25	25	25
VSWR Return loss, dB	1.5 14.0	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	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-896	890-960	698-806	790-896	890-960
Gain by all Beam Tilts, average, dBi	13.7	14.3	14.4	12.6	13.8	14.7
USLS, beampeak to 20° above beampeak, dB	15	15	14	13	14	17
CPR at Sector, dB	13	9	4	7	7	7

Electrical Specifications

	Y2,Y5	Y2,Y5	Y2,Y5	Y2,Y5	Y2,Y5
Frequency Band, MHz	1427-1518	1695-1990	1920-2300	2300-2500	2490-2690
RF Port	9,10,15,16	9,10,15,16	9,10,15,16	9,10,15,16	9,10,15,16
Gain at Mid Tilt, dBi	14.4	16.7	17.6	18	17.9

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Beamwidth, Horizontal, degrees	58	55	57	62	61
Beamwidth, Vertical, degrees	7.8	6.4	5.8	5.1	4.7
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	18	19	20	18
Front-to-Back Ratio at 180°, dB	29	35	35	35	29
Front-to-Back Total Power at 180° ± 30°, dB	24	29	29	27	25
CPR at Boresight, dB	18	18	18	19	19
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25
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, BASTA

Frequency Band, MHz	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	14.3	16.6	17.4	17.8	17.6
USLS, beampeak to 20° above beampeak, dB	11	16	16	15	15
CPR at Sector, dB	4	5	2	7	5

Electrical Specifications

	Y1,Y3,Y4,Y6	Y1,Y3,Y4,Y6	Y1,Y3,Y4,Y6	Y1,Y3,Y4,Y6
Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
RF Port	7,8,11,12,13,14,17,18	7,8,11,12,13,14,17,18	7,8,11,12,13,14,17,18	7,8,11,12,13,14,17,18
Gain at Mid Tilt, dBi	15.8	16.8	17.5	17.6
Beamwidth,	66	60	63	60

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Horizontal, degrees

Beamwidth, Vertical, degrees	6.8	6.2	5.5	5.3
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	19	18
Front-to-Back Ratio at 180°, dB	28	29	31	33
Front-to-Back Total Power at 180° ± 30°, dB	22	24	25	27
CPR at Boresight, dB	20	20	20	20
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
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

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	15.7	16.7	17.3	17.4
USLS, beampeak to 20° above beampeak, dB	14	15	15	15
CPR at Sector, dB	6	4	4	4

Mechanical Specifications

Wind Loading @ Velocity, frontal	568.0 N @ 150 km/h (127.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,037.0 N @ 150 km/h (233.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	576.0 N @ 150 km/h (129.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

Width, packed	681 mm 26.811 in
Depth, packed	368 mm 14.488 in
Length, packed	2239 mm 88.15 in
Weight, gross	62.5 kg 137.789 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015



Classification

Designed, manufactured and/or distributed under this quality management system

Included Products

- BSAMNT-4 – 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