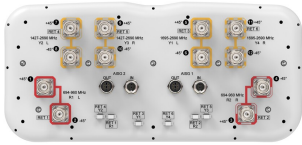


RRZZVV-65AR6NV1



12-port sector antenna, 4x 694–960, 4x 1427–2690 and 4x 1695–2690 MHz, 65° HPBW, 6x 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, low band	4
RF Connector Quantity, total	12

Remote Electrical Tilt (RET) Information

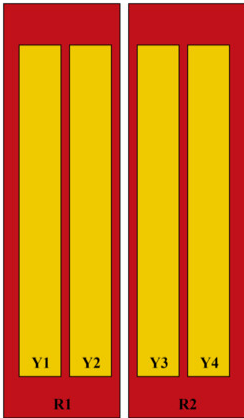
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RRZZVV-65AR6NV1

Width	430 mm 16.929 in
Depth	197 mm 7.756 in
Length	1599 mm 62.953 in
Net Weight, antenna only	30.4 kg 67.02 lb

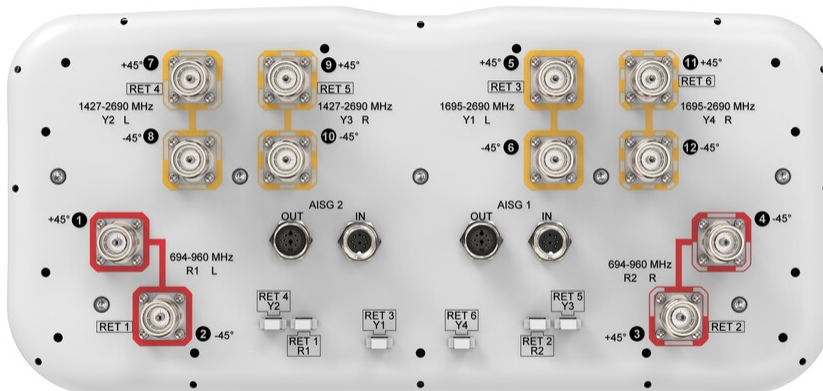
Array Layout



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
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
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RRZZVV-65AR6NV1

Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	694–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	1-4	1-4	1-4	7-10	7-10	7-10	7-10	7-10
Gain at Mid Tilt, dBi	13.1	13.5	14	15	16.3	17.3	18.2	18.5
Beamwidth, Horizontal, degrees	63	55	54	72	67	62	58	56
Beamwidth, Vertical, degrees	13.3	11.9	11.2	7.9	6.3	5.7	5	4.8
Beam Tilt, degrees	2–16	2–16	2–16	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	16	16	15	17	18	18	17
Front-to-Back Ratio at 180°, dB	26	27	29	31	32	32	32	32
Isolation, Cross Polarization, dB	25	25	25	25	26	26	26	26
Isolation, Inter-band, dB	25	25	25	25	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	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	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	13	13.4	13.9	14.9	16.2	17.1	18	18.3
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.8	±0.6	±0.7	±0.8	±0.7	±0.6
Beamwidth, Horizontal Tolerance, degrees	±10	±5	±5	±9	±10	±5	±4	±3
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.7	±0.7	±0.4	±0.5	±0.5	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	15	16	16	14	16	16	17	17
Front-to-Back Total Power at 180° ± 30°, dB	19	20	22	22	26	25	27	26

RRZZVV-65AR6NV1

CPR at Boresight, dB	21	18	19	20	23	17	18	19
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Electrical Specifications

	Y1,Y4	Y1,Y4	Y1,Y4	Y1,Y4
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	5,6,11,12	5,6,11,12	5,6,11,12	5,6,11,12
Gain at Mid Tilt, dBi	16.2	17.3	17.7	17.9
Beamwidth, Horizontal, degrees	75	65	63	61
Beamwidth, Vertical, degrees	6.2	5.6	5	4.7
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	19	21	20
Front-to-Back Ratio at 180°, dB	34	31	34	35
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	26	26	26	26
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

	1695–1995	1920–2300	2300–2500	2490–2690
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	16.1	17.2	17.5	17.7
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.7	±0.4	±0.3
Beamwidth, Horizontal Tolerance, degrees	±6	±10	±5	±5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	14	16	16	16
Front-to-Back Total Power at 180° ± 30°, dB	24	25	26	25
CPR at Boresight, dB	19	20	21	20

Mechanical Specifications

RRZZVV-65AR6NV1

Wind Loading @ Velocity, frontal	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	203.0 N @ 150 km/h (45.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	594.0 N @ 150 km/h (133.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	243.0 N @ 150 km/h (54.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	1771 mm 69.724 in
Weight, gross	40.2 kg 88.626 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



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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