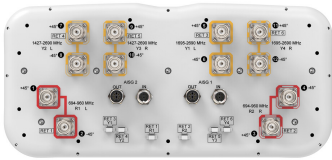


RRZZVV-65BR6NV1



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

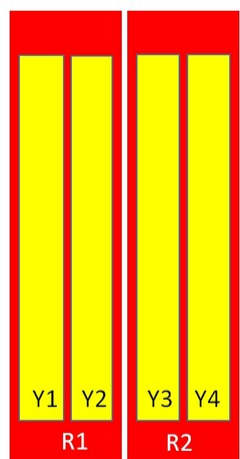
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10-30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RRZZVV-65BR6NV1

Width	430 mm 16.929 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, antenna only	36.9 kg 81.35 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	9-10	5	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxxxxY4

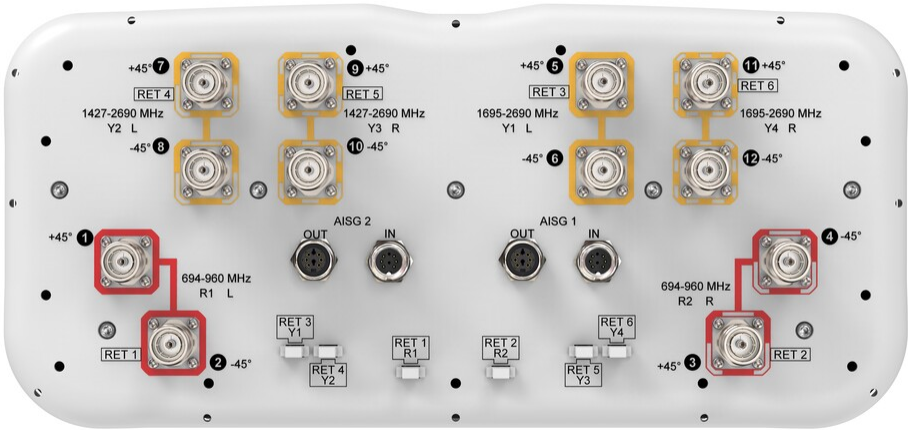
Left

Right

Bottom

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
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RRZZVV-65BR6NV1

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	Y1,Y4	Y1,Y4	Y1,Y4	Y1,Y4
Frequency Band, MHz	694–806	790–896	890–960	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690	1695–1990	1920–2300	2300–2500	2490–2690
RF Port	1-4	1-4	1-4	7-10	7-10	7-10	7-10	7-10	5,6,11,12	5,6,11,12	5,6,11,12	5,6,11,12
Gain at Mid Tilt, dBi	14.6	15.1	15.2	15.3	16.7	17.5	17.9	17.6	16.9	17.8	18.3	18
Beamwidth, Horizontal, degrees	64	60	59	77	63	58	59	58	65	61	60	61
Beamwidth, Vertical, degrees	10.3	9.3	8.6	6.8	5.7	5.2	4.7	4.5	5.7	5.2	4.6	4.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	15	15	20	16	17	18	17	15	16	17	18
Front-to-Back Ratio at 180°, dB	28	31	29	31	34	33	33	32	31	30	33	34
Front-to-Back Total Power at 180° ± 30°, dB	21	22	22	22	27	27	27	26	25	25	27	25
Isolation, Cross Polarization, dB	25	25	25	26	26	26	26	26	27	27	27	27
Isolation, Inter-band, dB	25	25	25	26	26	26	26	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	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	-153	-153	-153	-153

RRZZVV-65BR6NV1

Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200	250	250	200	200
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Electrical Specifications, BASTA

Frequency Band, MHz	694-806	790-896	890-960	1427-1518	1695-1990	1920-2300	2300-2500	2490-2690	1695-1990	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	14.5	15	15.1	15.2	16.5	17.3	17.7	17.3	16.8	17.6	18.1	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.5	±0.5	±0.8	±0.5	±0.4	±0.6	±1	±0.5	±0.4	±0.3
Beamwidth, Horizontal Tolerance, degrees	±7	±6	±7	±10	±7	±4	±7	±5	±6	±7	±5	±5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.6	±0.2	±0.4	±0.4	±0.3	±0.2	±0.4	±0.4	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	17	15	14	15	16	17	16	16	14	15	17	17
CPR at Boresight, dB	23	23	22	18	22	21	17	15	20	21	18	19
CPR at Sector, dB	11	11	11	8	8	7	8	-3	9	8	7	6

Mechanical Specifications


Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

RRZZVV-65BR6NV1

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2272 mm 89.449 in
Weight, gross	49.4 kg 108.908 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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