RVV-65A-R3

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Narrow vertical beamwidth over 700MHz

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	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1) | Mid band (2)
Power Consumption, active state, maximum	13 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

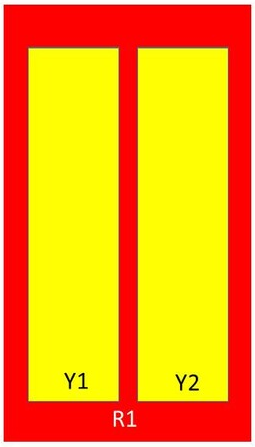
Dimensions

Width	350 mm | 13.78 in

RVV-65A-R3

Depth	208 mm | 8.189 in
Length	1400 mm | 55.118 in
Net Weight, antenna only	19.3 kg | 42.549 lb

Array Layout

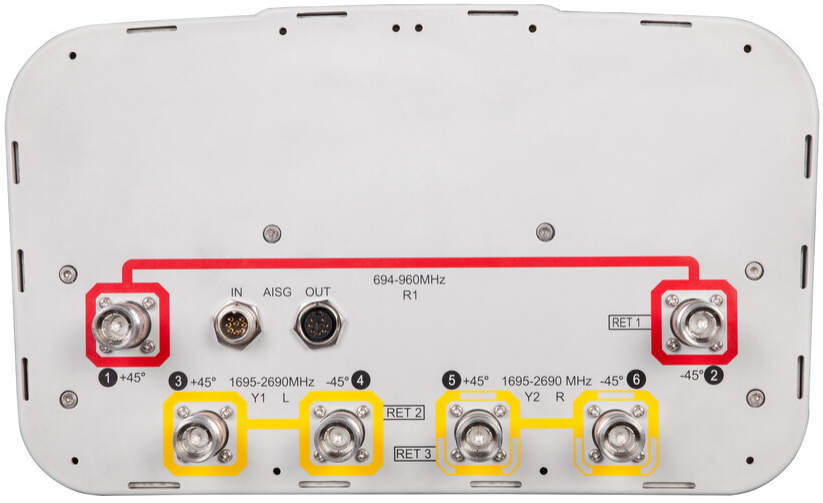


Left Right
Bottom

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

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ANxxxxxxxxxxxxxxxx1
Y1	1695-2690	3-4	2	ANxxxxxxxxxxxxxxxx2
Y2	1695-2690	5-6	3	ANxxxxxxxxxxxxxxxx3

Port Configuration



RVV-65A-R3

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**698–806**	**790–896**	**890–960**	**1695–1990**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	1-2	1-2	1-2	3-6	3-6	3-6	3-6
Gain at Mid Tilt, dBi	14.1	14.6	14.7	17.3	17.8	18.2	18
Beamwidth, Horizontal, degrees	68	65	63	60	61	60	59
Beamwidth, Vertical, degrees	14.8	13.5	12.6	7.1	6.4	5.7	5.5
Beam Tilt, degrees	3–16	3–16	3–16	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	13	14	14	16	16	16	15
Front-to-Back Ratio at 180°, dB	29	30	31	34	37	36	29
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	28	28	28	28
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**698–806**	**790–896**	**890–960**	**1695–1990**	**1920–2300**	**2300–2500**	**2490–2690**
Gain by all Beam Tilts, average, dBi	14	14.5	14.6	17.2	17.7	18.1	17.9
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3	±0.7	±0.4	±0.3	±0.4
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±1	±4	±4	±5	±3
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.9	±0.8	±0.6	±0.5	±0.2	±0.3
USLS, beampeak to 20° above	15	15	14	14	15	15	13

beampeak, dB							
Front-to-Back Total Power at 180° ± 30°, dB	24	23	23	27	26	26	24
CPR at Boresight, dB	16	16	17	20	20	20	15
CPR at Sector, dB	11	10	9	11	10	6	3

Mechanical Specifications

Wind Loading @ Velocity, frontal	231.0 N @ 150 km/h (51.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	222.0 N @ 150 km/h (49.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	520.0 N @ 150 km/h (116.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	244.0 N @ 150 km/h (54.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	447 mm | 17.598 in
Depth, packed	354 mm | 13.937 in
Length, packed	1544 mm | 60.787 in
Weight, gross	31.7 kg | 69.886 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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance