

RVV-65D-R3



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

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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 Hardware	CommRET v2
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	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

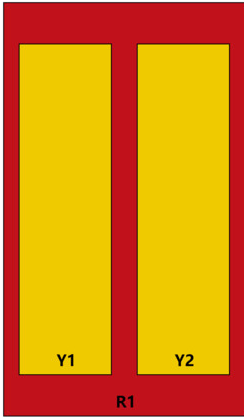
Dimensions

Width	350 mm 13.78 in
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Depth	208 mm 8.189 in
Length	2688 mm 105.827 in
Net Weight, antenna only	30.5 kg 67.241 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY2

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

Port Configuration



Electrical Specifications

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

Electrical Specifications

	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2490–2690
RF Port	1,2	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain at Mid Tilt, dBi	16.3	16.8	17.1	18	18.6	18.7	18.6
Beamwidth, Horizontal, degrees	67	65	63	62	61	60	62
Beamwidth, Vertical, degrees	8.1	7.4	6.8	5.5	4.9	4.2	4.1
Beam Tilt, degrees	0–10	0–10	0–10	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	22	21	19	20	21	21
Front-to-Back Ratio at 180°, dB	29	31	33	35	37	34	34
Front-to-Back Total Power at 180° ± 30°, dB	25	25	24	30	27	26	26
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30
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	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	250	250	250	200	200

Electrical Specifications, BASTA

	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2490–2690
Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	16.3	16.7	17	17.9	18.5	18.5	18.4
USLS, beampeak to 20° above beampeak, dB	15	16	17	15	17	16	15
CPR at Boresight, dB	16	17	18	19	21	18	16
CPR at Sector, dB	10	10	8	11	10	8	5

Mechanical Specifications

Wind Loading @ Velocity, frontal	443.0 N @ 150 km/h (99.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	427.0 N @ 150 km/h (96.0 lbf @ 150 km/h)

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Wind Loading @ Velocity, maximum	997.0 N @ 150 km/h (224.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	468.0 N @ 150 km/h (105.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	460 mm 18.11 in
Depth, packed	350 mm 13.78 in
Length, packed	2830 mm 111.417 in
Weight, gross	45.5 kg 100.31 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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