

RVV-65M-R3VB01



6-port sector antenna, 2x 698-960, 4x1710-2690 MHz, 65° HPBW, 3x RET

- 3 Independent Arrays (1 Low band and 2 high bands) in a single radome housing with small formfactor
- Symmetrical high band arrays with consistent electrical performance
- Excellent RF pattern control – over the full operating band and tilt range for desired coverage and interference containment

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
Radiator Material	Aluminum
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	13 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

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Dimensions

Width	397 mm 15.63 in
Depth	157 mm 6.181 in
Length	997 mm 39.252 in
Net Weight, without mounting kit	13.5 kg 29.762 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	698-960	1 - 2	65°	1	AISG1	ANxxxxxxxxxxxxxxxxR1
Y1	1710-2690	3 - 4	65°	2	AISG1	ANxxxxxxxxxxxxxxxxY1
Y2	1710-2690	5 - 6	65°	3	AISG1	ANxxxxxxxxxxxxxxxxY2

(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	1710 – 2690 MHz 698 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698–787	783–806	806–960	1710–1880	1850–1920	1920–2180	2300–2500	2500–2690
RF Port	1,2	1,2	1,2	3-6	3-6	3-6	3-6	3-6
Gain, dBi	12.8	13.2	14.1	14.8	14.8	15.5	16.2	16.5
Beamwidth, Horizontal, degrees	67	64	62	70	70	67	62	61
Beamwidth, Vertical, degrees	23.4	21.7	19.5	12.7	12	11.4	10.3	9.6
Beam Tilt, degrees	3–16	3–16	3–16	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	18	19	17	18	18	20	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	28	28	27	28	29	30	29
CPR at Boresight, dB	23	24	25	24	24	23	21	25
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	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, maximum, watts	250	250	250	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	247.0 N @ 150 km/h (55.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	472 mm 18.583 in
Depth, packed	232 mm 9.134 in
Length, packed	1217 mm 47.913 in
Weight, gross	21 kg 46.297 lb

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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

BSAMNT-B95-01A	–	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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