RVV-65M-R3VB

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
- Pluggable RET with retractable tilt scale

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, high band	0
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	10 W

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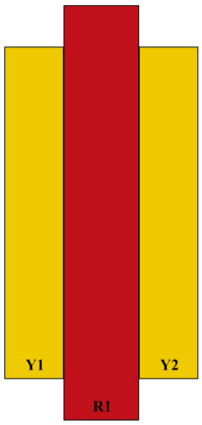
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	397 mm | 15.63 in
Depth	157 mm | 6.181 in
Length	997 mm | 39.252 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	698-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1710-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1710-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxY2

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

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz | 698 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

Frequency Band, MHz	**698–787**	**783–806**	**806–960**	**1710–1880**	**1850–1920**	**1920–2180**	**2300–2500**	**2500–2690**
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
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	-150	-150	-150	-150	-150	-150	-150	-150
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	492 mm | 19.37 in
Depth, packed	277 mm | 10.906 in
Length, packed	1177 mm | 46.339 in
Weight, gross	20.4 kg | 44.974 lb

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-B95-01	–	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