

RRV4-65D-R6H4VB-V3



12-port sector antenna, 4x 698–960 and 8x 1710–2690 MHz, 65° HPBW, 6x RET

- 6 Independent Arrays in a single Radome housing
- 2L4H band arrays are perfectly symmetrical inside the antenna ensuring pattern consistency across ports & provides capability for 4T4R (4x MIMO) on Low band and High band
- Optimized radome design leading to market leading wind load performance
- Antenna with integrated pluggable RET

General Specifications

Antenna Type	Sector
Band	Multiband
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	Low loss circuit board
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	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
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	499 mm 19.646 in
Depth	199 mm 7.835 in
Length	2580 mm 101.575 in
Net Weight, without mounting kit	33.2 kg 73.193 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (RET)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	ANxxxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	ANxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	ANxxxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	5	AISG1	ANxxxxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	6	AISG1	ANxxxxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

RRV4-65D-R6H4VB-V3

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz 698 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698–803	824–894	880–960	1710–1880	1920–2170	2300–2400	2490–2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	16.2	16.7	16.8	17	18	18.1	18.3
Beamwidth, Horizontal, degrees	66	60	58	71	66	58	60
Beamwidth, Vertical, degrees	8.6	7.7	7.3	6.7	6	5.3	5
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	16	16	17	18	20	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	28	29	27	31	29	27
CPR at Boresight, dB	22	24	23	18	17	19	21
Isolation, Cross Polarization, dB	26	26	26	26	26	26	26
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	760.0 N @ 150 km/h (170.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	368.0 N @ 150 km/h (82.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,348.0 N @ 150 km/h (303.0 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	574 mm 22.598 in
Depth, packed	324 mm 12.756 in
Length, packed	2700 mm 106.299 in

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Weight, gross

51.2 kg | 112.877 lb

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

UK-ROHS

Compliant

Included Products

BSAMNT-B95-02

– 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, one middle bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance