

RRV4-65B-R6H4VB-V5



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

- Antenna with tilt scale indicators and integrated pluggable RET
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band

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	Aluminum
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN 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)

Dimensions

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Width	499 mm 19.646 in
Depth	199 mm 7.835 in
Length	1999 mm 78.701 in
Net Weight, without mounting kit	35 kg 77.162 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

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

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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
Beamwidth, Horizontal, degrees	64	62	60	67	64	60	58
Beamwidth, Vertical, degrees	11.6	10	9.5	6.6	6	5.2	4.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	17	17	17	18	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	27	27	27	28	28	29	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
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

Electrical Specifications, BASTA

	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
Frequency Band, MHz	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	14.6	15	15.2	17	17.6	17.8	18.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.6	±0.5	±0.6	±0.6
Beamwidth, Horizontal Tolerance, degrees	±5	±5	±4	±6	±6	±7	±6
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.6	±0.4	±0.4	±0.4	±0.4

Mechanical Specifications

Wind Loading @ Velocity, frontal	577.0 N @ 150 km/h (129.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,024.0 N @ 150 km/h (230.2 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

RRV4-65B-R6H4VB-V5

Width, packed	580 mm 22.835 in
Depth, packed	300 mm 11.811 in
Length, packed	2330 mm 91.732 in
Weight, gross	47 kg 103.617 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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