RRVV-65B-R2VB-V2

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

- Antenna design optimized to offer high gain performances
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Mid band

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	4
RF Connector Quantity, total	8

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 (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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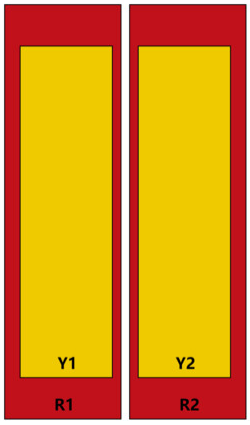
Width	499 mm | 19.646 in
Depth	199 mm | 7.835 in
Length	2100 mm | 82.677 in
Net Weight, antenna only	33.5 kg | 73.855 lb

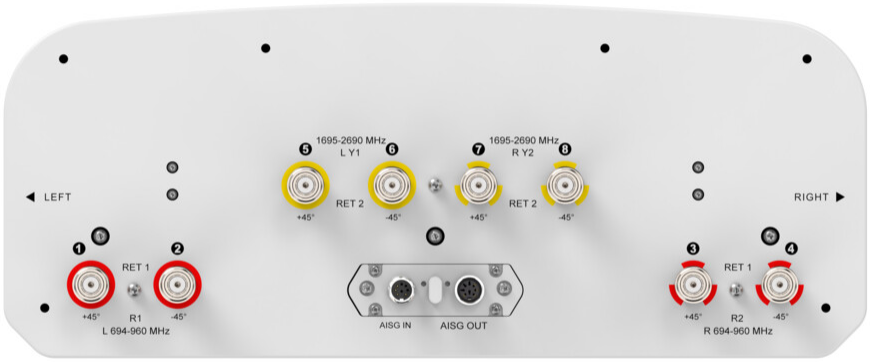
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°			
Y1	1695-2690	5 - 6	65°	2	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°			

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

Port Configuration



Electrical Specifications

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

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**694–806**	**790–890**	**880–960**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2400**	**2500–2690**
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain, dBi	16	16.5	16.8	17.1	17.4	17.5	17.5	18.3
Beamwidth, Horizontal, degrees	65	66	68	65	64	69	67	55
Beamwidth, Vertical, degrees	9.8	8.8	8.1	6.7	6.3	6	5.3	4.8
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	20	18	16	18	20	19	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	29	27	28	28	28	27	27
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	608.0 N @ 150 km/h (136.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,078.0 N @ 150 km/h (242.3 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	570 mm | 22.441 in
Depth, packed	275 mm | 10.827 in
Length, packed	2375 mm | 93.504 in
Weight, gross	45.2 kg | 99.649 lb

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RRVV-65B-R2VB-V2

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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

BSAMNT-B92-08	–	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

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