RV-65S-FVB

4-port sector antenna, 2x 698-960 and 2x 1710–2690 MHz, 65° HPBW, fixed tilt

- Ideal for small cell applications

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	2
RF Connector Quantity, low band	2
RF Connector Quantity, total	4

Dimensions

Width	300 mm | 11.811 in
Depth	150 mm | 5.906 in
Length	597 mm | 23.504 in
Net Weight, antenna only	4.6 kg | 10.141 lb

Array Layout

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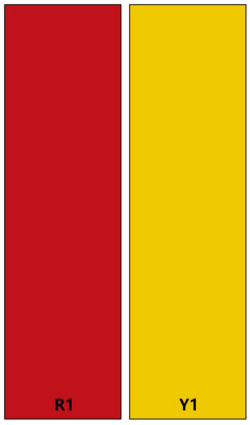
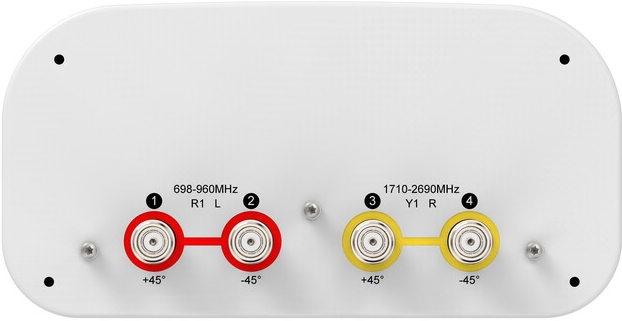


Array ID	Frequency (MHz)	RF Connector	HPBW	RET (N/A)	AISG No.	RET UID
R1	698-960	1 - 2	65°	N/A	NA	N/A
Y1	1710-2690	3 - 4	65°			

(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	500 W

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Electrical Specifications

	R1	R1	R1	Y1	Y1	Y1	Y1
Frequency Band, MHz	**698–806**	**790–894**	**880–960**	**1710–1920**	**1920–2180**	**2300–2500**	**2500–2690**
RF Port	1,2	1,2	1,2	3,4	3,4	3,4	3,4
Gain, dBi	11	11.4	11.7	13.4	14.4	15	14.9
Beamwidth, Horizontal, degrees	71	69	65	67	66	64	64
Beamwidth, Vertical, degrees	38	34.6	31.8	18	16.2	13.6	13.1
Beam Tilt, degrees	0	0	0	0	0	0	0
USLS (First Lobe), dB	17	17	16	14	14	13	13
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	25	26	25	24	27	27	28
Isolation, Cross Polarization, dB	20	20	20	23	23	23	23
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

Mechanical Specifications

Wind Loading @ Velocity, frontal	102.0 N @ 150 km/h (22.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	47.0 N @ 150 km/h (10.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	102.0 N @ 150 km/h (22.9 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	395 mm | 15.551 in
Depth, packed	270 mm | 10.63 in
Length, packed	750 mm | 29.528 in
Weight, gross	8.3 kg | 18.298 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

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REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

BSAMNT-B95-05	–	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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