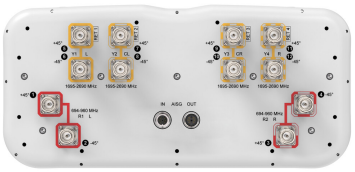
RRV4-65S-R4N43



12-port sector antenna, 4x 694–960MHz 8deg fixed tilt and 8x 1695-2690 MHz, 65° HPBW, 4x RET

- Sleek & Smallest Form Factor: Designed for maximum efficiency and space-saving installation
- Symmetrical Low & Mid Band Arrays: Deliver consistent electrical performance and support 4T4R (4x MIMO) on both Low and Mid bands
- Optimized Antenna Shape: Minimize wind load for the enhanced stability and durability

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
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
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	Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	430 mm | 16.929 in
Depth	197 mm | 7.756 in

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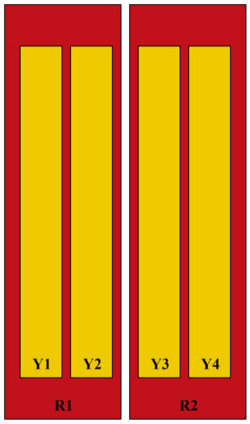
Length	600 mm | 23.622 in
Net Weight, antenna only	12.3 kg | 27.117 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (N/A)	AISG No.	RET UID
R1	694-960	1 - 2	N/A	NA	N/A
R2	694-960	3 - 4			
Y1	1695-2690	5 - 6	1	AISG1	CPxxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	3	AISG1	CPxxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	4	AISG1	CPxxxxxxxxxxxxxxxY4

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

Port Configuration

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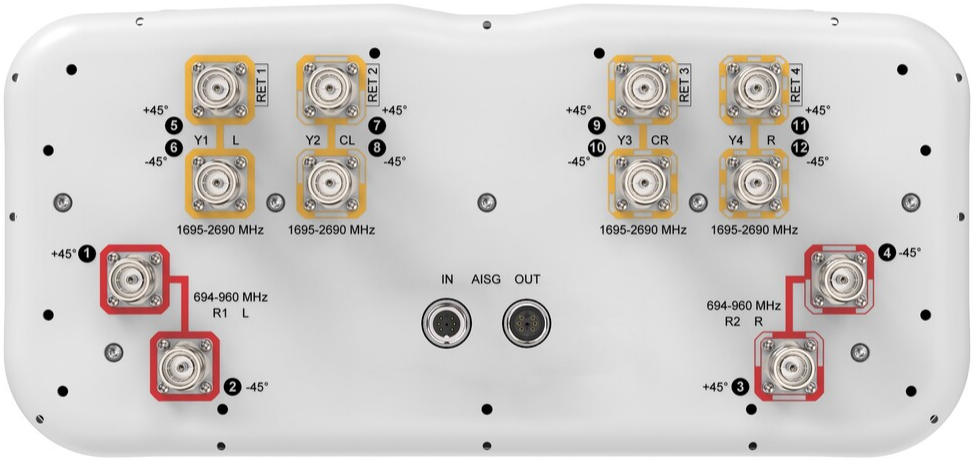

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	**698–806**	**790–894**	**890–960**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12
Gain at Mid Tilt, dBi	9.5	9.8	9.7	12.9	12.7	14.3	14.7
Beamwidth, Horizontal,	84	73	71	75	70	60	59

degrees							
Beamwidth, Vertical, degrees	39	36	35	17	15.2	13.4	12.5
Beam Tilt, degrees	8	8	8	2–12	2–12	2–12	2–12
Front-to-Back Ratio at 180°, dB	26	26	26	30	30	30	30
Isolation, Cross Polarization, dB	22	22	22	22	22	22	22
Isolation, Inter-band, dB	22	22	22	22	22	22	22
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 at 50°C, maximum, watts	150	150	150	150	150	150	150

Mechanical Specifications

Wind Loading @ Velocity, frontal	130.0 N @ 150 km/h (29.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	63.0 N @ 150 km/h (14.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	196.0 N @ 150 km/h (44.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	83.0 N @ 150 km/h (18.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm | 20.866 in
Depth, packed	349 mm | 13.74 in
Length, packed	765 mm | 30.118 in
Weight, gross	22 kg | 48.502 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

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Included Products

BSAMNT-3	–	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