

# RRVV-33B-R2

8-port multiband sector antenna, 4x 694-960 and 4 x 1695-2690 MHz, 33° HPBW, 2x RET



- Ideal for high gain corridor coverage or capacity optimization
- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Mid 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
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

Width	749 mm   29.488 in
Depth	197 mm   7.756 in

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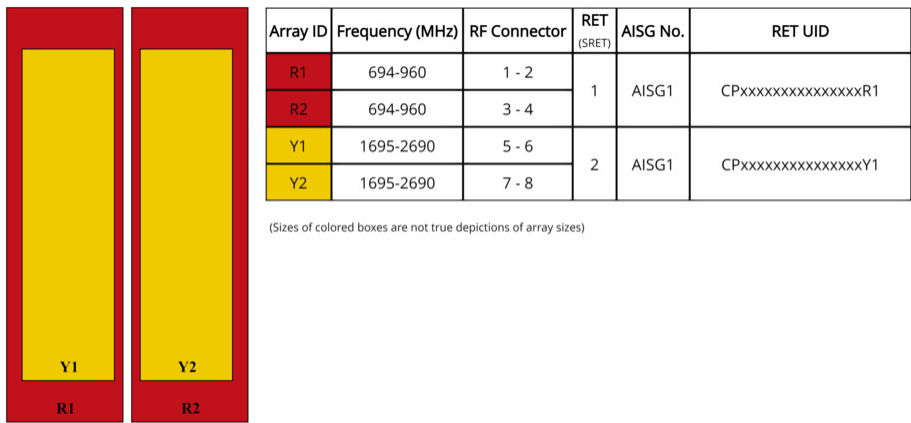
Length

2225 mm | 87.598 in

Net Weight, antenna only

55.6 kg | 122.577 lb

## Array Layout



## 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	900 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
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	5-8	5-8	5-8	5-8
Gain, dBi	17.1	18	18.6	21.1	22.3	22.8	22.5
Beamwidth, Horizontal,	37	33	31	28	25	24	21

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degrees							
Beamwidth, Vertical, degrees	9.9	8.9	8.2	5.8	5.1	4.5	4.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	18	19	20	20	20	19
Front-to-Back Ratio at 180°, dB	30	35	36	38	39	39	34
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	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	200	200	200	200

## Mechanical Specifications

Wind Loading @ Velocity, frontal	2,165.0 N @ 150 km/h (486.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	239.0 N @ 150 km/h (53.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	2,165.0 N @ 150 km/h (486.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	2,165.0 N @ 150 km/h (486.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	910 mm   35.827 in
Depth, packed	368 mm   14.488 in
Length, packed	2723 mm   107.205 in
Weight, gross	82.1 kg   180.999 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-9	–	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.
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\* Footnotes

**Performance Note**      Severe environmental conditions may degrade optimum performance