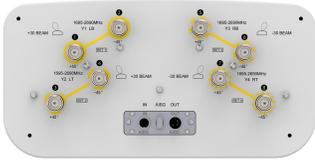


# 2VV-33B-R4VB



8-port multibeam antenna, 8x 1695–2690 MHz, 33° HPBW, 4xRET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs – 3 antennas required for 6 sector configurations

## General Specifications

<b>Antenna Type</b>	Multibeam
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	0
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Mid band (4)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

# 2VV-33B-R4VB

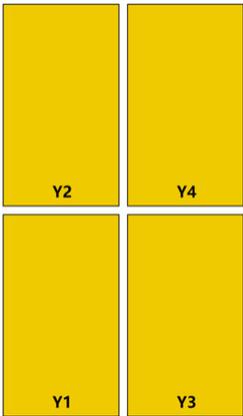
## Dimensions

<b>Width</b>	397 mm   15.63 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	1997 mm   78.622 in
<b>Net Weight, antenna only</b>	21.2 kg   46.738 lb

## Array Layout

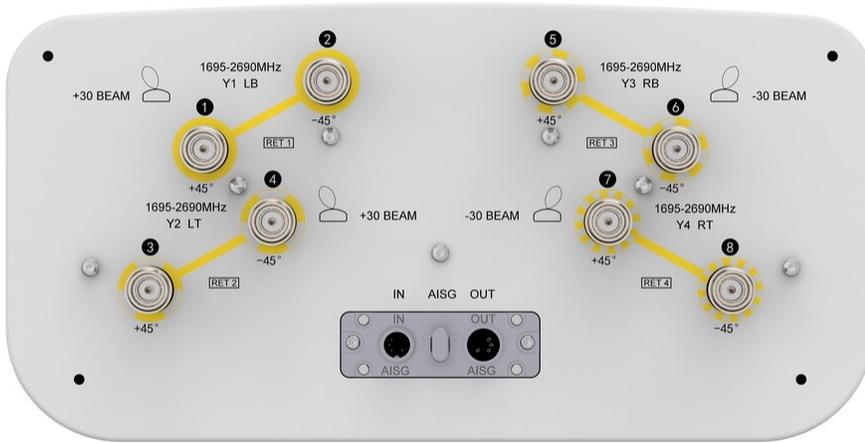
Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	33°	1	AISG1	CPXXXXXXXXXXXXX1
Y2	1695-2690	3 - 4	33°	2	AISG1	CPXXXXXXXXXXXXX2
Y3	1695-2690	5 - 6	33°	3	AISG1	CPXXXXXXXXXXXXX3
Y4	1695-2690	7 - 8	33°	4	AISG1	CPXXXXXXXXXXXXX4

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



## Port Configuration

# 2VV-33B-R4VB



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	$\pm 45^\circ$
<b>Total Input Power, maximum</b>	1,000 W
<b>BASTA Version, electrical</b>	BASTA v11

## Electrical Specifications

	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>
<b>Frequency Band, MHz</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>RF Port</b>	1-8	1-8	1-8	1-8
<b>Gain, dBi</b>	18.3	19.1	19.8	19.8
<b>Beam Centers, Horizontal, degrees</b>	$\pm 30$	$\pm 30$	$\pm 30$	$\pm 30$
<b>Beamwidth, Horizontal, degrees</b>	39	35	30	28
<b>Beamwidth, Vertical, degrees</b>	9.8	8.8	7.5	6.9
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12

# 2VV-33B-R4VB

<b>USLS (First Lobe), dB</b>	16	21	21	20
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	29	31	30	29
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25
<b>Isolation, Inter-band, dB</b>	26	26	26	26
<b>Isolation, Beam to Beam, dB</b>	26	26	26	26
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	625.0 N @ 150 km/h (140.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	289.0 N @ 150 km/h (65.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	270.0 N @ 150 km/h (60.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	492 mm   19.37 in
<b>Depth, packed</b>	317 mm   12.48 in
<b>Length, packed</b>	2197 mm   86.496 in
<b>Weight, gross</b>	32 kg   70.548 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

BSAMNT-B95-04	–	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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# 2VV-33B-R4VB

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## \* Footnotes

### **Performance Note**

Severe environmental conditions may degrade optimum performance