

# 2VV-33C-R0-V5



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

- 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
- Manual tilt adjustment with tilt indicators. RET compatible by replacing the manual tilt cartridge on site with the “plug-in” RET

## General Specifications

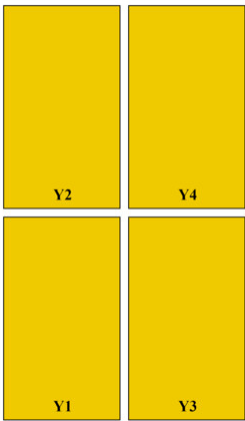
<b>Antenna Type</b>	Multibeam
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<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

## Dimensions

<b>Width</b>	395 mm   15.551 in
<b>Depth</b>	228 mm   8.976 in
<b>Length</b>	2499 mm   98.386 in
<b>Net Weight, antenna only</b>	28.5 kg   62.832 lb

## Array Layout

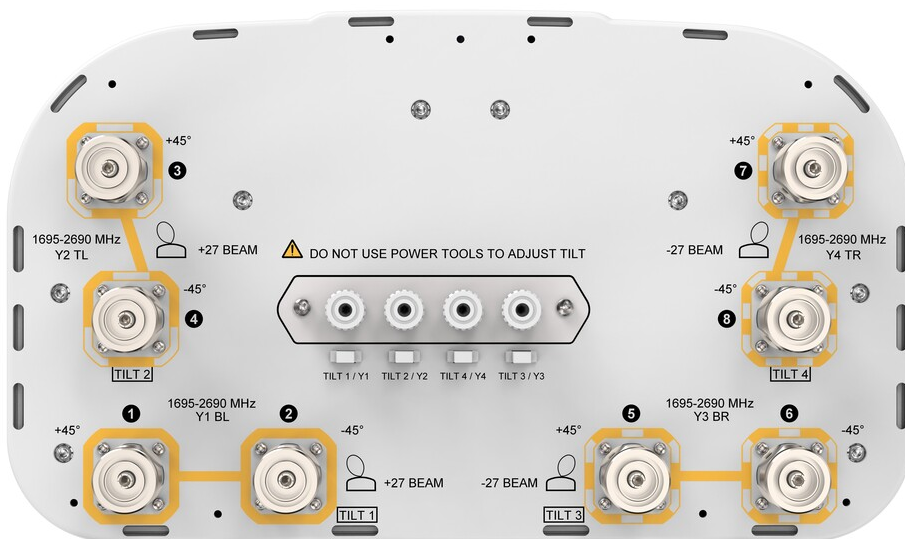
# 2VV-33C-R0-V5



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (N/A)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	33°	N/A	NA	N/A
Y2	1695-2690	3 - 4	33°			
Y3	1695-2690	5 - 6	33°			
Y4	1695-2690	7 - 8	33°			

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,200 W @ 50 °C

# 2VV-33C-R0-V5

## Electrical Specifications

	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>RF Port</b>	1-8	1-8	1-8	1-8	1-8
<b>Gain, dBi</b>	18.9	19.4	19.6	19.8	20
<b>Beam Centers, Horizontal, degrees</b>	±27	±27	±27	±27	±27
<b>Beamwidth, Horizontal, degrees</b>	40	38	37	34	30
<b>Beamwidth, Vertical, degrees</b>	8	7.6	7.2	6.4	6
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	17	18	19	21
<b>Front-to-Back Ratio at 180°, dB</b>	36	37	38	37	38
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28
<b>Isolation, Beam to Beam, dB</b>	28	28	28	28	28
<b>VSWR   Return loss, dB</b>	1.5   14.0	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	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	200	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	525.0 N @ 150 km/h (118.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	386.0 N @ 150 km/h (86.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	898.0 N @ 150 km/h (201.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	540.0 N @ 150 km/h (121.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	505 mm   19.882 in
<b>Depth, packed</b>	386 mm   15.197 in
<b>Length, packed</b>	2631 mm   103.583 in
<b>Weight, gross</b>	44 kg   97.003 lb

# 2VV-33C-RO-V5

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



## 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

# 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.

## Product Classification

**Product Type** Downtilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 6.2 kg | 13.669 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.4 kg | 14.11 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

# BSAMNT-3

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