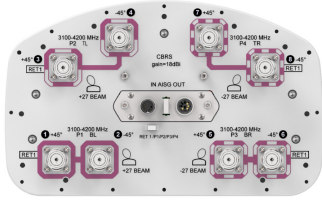


# 2SS-33A-R1



8-Port multibeam antenna ,8x 3100-4200 MHz , 4x 33° HPBW, 1x RET

- 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
- Future proof-covers bands 42,43,48 plus C-Band and future CBRS expansions

## 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>	8

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	AISG1 8-pin DIN Female   AISG1 8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (1)
<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)

## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	181 mm   7.126 in

# 2SS-33A-R1

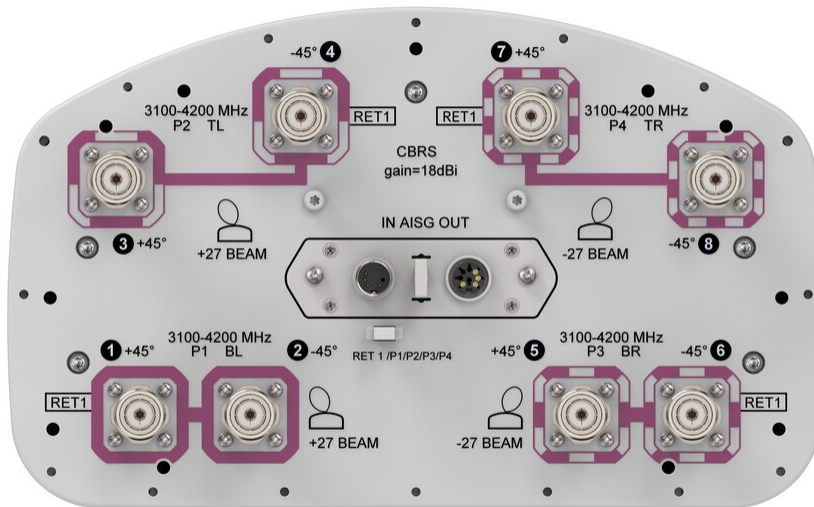
**Length** 1100 mm | 43.307 in  
**Net Weight, without mounting kit** 12 kg | 26.455 lb

## Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
P1	3100-4200	1 - 2	1	AISG1	CPxxxxxxxxxxxxxP1
P2	3100-4200	3 - 4			
P3	3100-4200	5 - 6			
P4	3100-4200	7 - 8			

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

## Port Configuration



## Electrical Specifications

**Impedance** 50 ohm

# 2SS-33A-R1

<b>Operating Frequency Band</b>	3100 – 4200 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	640 W @ 50 °C

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>3100–3550</b>	<b>3550–3700</b>	<b>3700–4200</b>
<b>Gain, dBi</b>	17.5	17.7	17.8
<b>Beam Centers, Horizontal, degrees</b>	±27	±27	±27
<b>Beamwidth, Horizontal, degrees</b>	38	36	34
<b>Beamwidth, Vertical, degrees</b>	9.9	9.1	8.5
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	24	20
<b>Front-to-Back Ratio at 180°, dB</b>	32	32	31
<b>Isolation, Cross Polarization, dB</b>	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-145	-145	-145
<b>Input Power per Port at 50°C, maximum, watts</b>	80	80	80

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>3100–3550</b>	<b>3550–3700</b>	<b>3700–4200</b>
<b>Gain by all Beam Tilts, average, dBi</b>	17.1	17.3	17.1
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.5	±1
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.7	±2.5	±3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.6	±0.4	±0.6
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	17	14
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	25	25
<b>CPR at Boresight, dB</b>	17	19	23
<b>CPR at 10 dB Horizontal Beamwidth, dB</b>	8	10	10

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	154.0 N @ 150 km/h (34.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	125.0 N @ 150 km/h (28.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	297.0 N @ 150 km/h (66.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	157.0 N @ 150 km/h (35.3 lbf @ 150 km/h)

# 2SS-33A-R1

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**Wind Speed, maximum** 241 km/h (150 mph)

## Packaging and Weights

**Width, packed** 441 mm | 17.362 in  
**Depth, packed** 337 mm | 13.268 in  
**Length, packed** 1245 mm | 49.016 in  
**Weight, gross** 23 kg | 50.706 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant/Exempted



## 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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