

#### 8-port multibeam antenna, 8x 1695–2690 MHz, 4x 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
- Utilizes RET-PMOD-A20-4A24

#### General Specifications

Antenna Type	Multibeam
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, total	8

#### Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return
RET Interface, quantity	1 female   1 male
Input Voltage	10-30 Vdc
Internal RET	High band (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Page 1 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 15, 2024



2VV-33C-R4-V4

#### Dimensions

Width	395 mm   15.551 in
Depth	228 mm   8.976 in
Length	2499 mm   98.386 in
Net Weight, without mounting kit	30.4 kg   67.02 lb

# Array Layout

		Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
		¥1	1695-2690	1-2	1	CPxxxxxxxxxxxxXXY1
Y2	¥4	Y2	1695-2690	3-4	2	CPxxxxxxxxxxxxXXXXXY2
		Y3	1695-2690	5-6	3	CPxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXXX
		¥4	1695-2690	7-8	4	CPxxxxxxxxxxxxXXXXXY4
Y1	Y3					

Bottom

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

# Port Configuration

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 15, 2024

**COMMSCOPE**°



# **Electrical Specifications**

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

# **Electrical Specifications**

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Gain, dBi	19	19.4	19.6	20	20.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	40	39	37	36	31
Beamwidth, Vertical, degrees	7.9	7.4	7	6.2	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
Horizontal Sidelobe, dB	18	18	18	18	17
USLS (First Lobe), dB	16	16	16	17	20
Front-to-Back Ratio at 180°, dB	31	36	38	36	35
Isolation, Cross Polarization,	30	30	30	30	30

Page 3 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 15, 2024

**COMMSCOPE**°

# 2VV-33C-R4-V4

dB

#### Isolation, Inter-band, dB 30 30 30 30 30 Isolation, Beam to Beam, dB 28 28 28 28 28 VSWR | Return loss, dB 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 Input Power per Port at 50°C, 200 200 200 200 200 maximum, watts

# Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	18.6	19	19.3	19.5	19.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.5	±0.4
Gain by Beam Tilt, average, dBi	2 °   17.7 7 °   17.9 12 °   17.7	2 °   18.3 7 °   18.7 12 °   18.5	2 °   18.6 7 °   19.0 12 °   18.7	2 °   19.1 7 °   19.5 12 °   19.3	2 °   19.4 7 °   19.9 12 °   19.4
Beamwidth, Horizontal Tolerance, degrees	±2.6	±1.8	±2.3	±1.5	±1.8
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	16	17	20
Front-to-Back Total Power at 180° ± 30°, dB	24	26	27	29	28
CPR at Boresight, dB	21	24	19	21	19
CPR at 10 dB Horizontal Beamwidth, dB	11	16	16	14	10

#### Mechanical Specifications

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

#### Packaging and Weights

Width, packed

Depth, packed

505 mm	19.882 in
386 mm	15.197 in

Page 4 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 15, 2024



# 2VV-33C-R4-V4

Length, packed

Weight, gross

2631 mm | 103.583 in 44.4 kg | 97.885 lb

#### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
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

Page 5 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 15, 2024



# 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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Page 6 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: April 17, 2024







Page 7 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: April 17, 2024

