

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4000 MHz, 55° HPBW, 2x RETs.

- Utilizes Pattern Shaping Technology to reduce cell overlap and maximize SINR (Signal to Interference and Noise Ratio)
- Superior SPR (Sector Power Ratio) for best-in-class data throughput rates
- Excellent pattern overlay across all bands
- Low band and mid band performance mirrors performance of the equivalent hex port antenna
- Internal SBTs on low and mid band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one MB RET. Both mid band arrays are controlled by one RET to ensure same tilt level for best 4x4 MIMO performance
- Use optional BSAMNT-SBS-2-2 for side-by-side mounting of two hex and/or ten port 55° antennas

### General Specifications

Antenna Type Sector

**Band** Multiband

**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** 4.3-10 Female

**RF Connector Location**Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, mid band 4

RF Connector Quantity, low band 2

RF Connector Quantity, total

## Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface**4x 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:

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DC\_ Return

**RET Interface, quantity** 2 female | 2 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

Internal RET Low band (1) | Mid band (1)

Power Consumption, active state, maximum  $10~\mathrm{W}$ Power Consumption, idle state, maximum  $2~\mathrm{W}$ 

**Protocol** 3GPP/AISG 2.0 (Single RET)

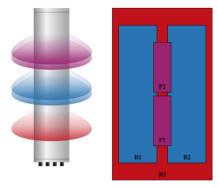
**Dimensions** 

 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 1828 mm | 71.969 in

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID		
R1 698-896		1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxxR1		
B1	1695-2200	3 - 4	2	AISG2	3	2	CPxxxxxxxxxxxxxxB1		
B2	1695-2200	5 - 6	2	AISG2	3		CFXXXXXXXXXXXXXXXX		
P1	3100-4000	7 - 8	NI/A	NIA			NI/A		
P2	3100-4000	9 - 10	N/A	NA			N/A		

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

## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 3100 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

## **Electrical Specifications**

	R1	R1	B1,B2	B1,B2	B1,B2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-188	0 1850-1990	0 1920-220	0 3100-355	0 3550-370	0 3700-4000
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	7,8,9,10	7,8,9,10	7,8,9,10

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Gain, dBi	15.1	15	18	18.4	18.5	16.4	17.3	17.4
Beamwidth, Horizontal, degrees	58	54	56	55	52	66	53	54
Beamwidth, Vertical, degrees	12.6	10.9	5.7	5.3	5	6	5.4	5.1
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	4	4	4
USLS (First Lobe), dB	16	15	17	17	15	15	17	15
Front-to-Back Ratio at 180°, dB	26	28	29	28	28	26	27	25
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	30	30	30
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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	100	100	100

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-188	0 1850–199	0 1920-220	0 3100-355	0 3550-370	0 3700-4000
Gain by all Beam Tilts, average, dBi	14.9	14.8	17.5	18	18.1	15.7	16.9	16.8
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±4	±3	±5	±11	±6	±7
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.5	±0.5	±0.5	±0.6	±0.3	±0.3
Front-to-Back Total Power at 180° ± 30°, dB	24	26	26	25	25	24	23	21
CPR at Boresight, dB	23	18	21	25	24	14	15	14

## Mechanical Specifications

Effective Projective Area (EPA), frontal	0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.23 m <sup>2</sup>   2.476 ft <sup>2</sup>
Wind Loading @ Velocity, frontal	272.0 N @ 150 km/h (61.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	244.0 N @ 150 km/h (54.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	547.0 N @ 150 km/h (123.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	311.0 N @ 150 km/h (69.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

**COMMSCOPE®** 

 Width, packed
 505 mm | 19.882 in

 Depth, packed
 386 mm | 15.197 in

 Length, packed
 1960 mm | 77.165 in

 Weight, gross
 42.7 kg | 94.137 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



## 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

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

## Packaging and Weights

Included Brackets | Hardware

Packaging quantity

**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

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