

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

#### 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 Aluminum | Low loss circuit board

**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 10

#### 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:

 $DC_Return$ 

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



Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

Internal RET Low band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

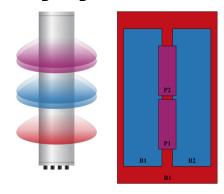
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 1413 mm | 55.63 in

 Net Weight, without mounting kit
 19.5 kg | 42.99 lb

#### Array Layout

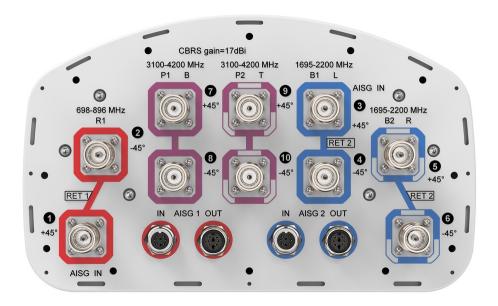


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1	
B1	1695-2200	3 - 4	2	AISG2	CD	
B2	1695-2200	5 - 6	2	AISG2	CPxxxxxxxxxxxxxxxB1	
P1	3100-4200	7 - 8	A1/A		N/4	
P2	3100-4200	9 - 10	N/A	NA	N/A	

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

# Port Configuration





## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 3100 – 4200 MHz | 698 – 896 MHz

Polarization ±45°

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

## **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	1695-188	0 1850-1990	0 1920-220	0 3100-355	0 3550-370	0 3700-4200
Gain, dBi	13.8	13.9	16.2	16.7	16.9	16.9	16.5	16.8
Beamwidth, Horizontal, degrees	67	64	69	62	62	56	67	62
Beamwidth, Vertical, degrees	16.2	14.4	7	6.6	6.4	7.5	6.9	6.3
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10	4	4	4
USLS (First Lobe), dB	16	16	17	16	17	16	18	17
Front-to-Back Ratio at 180°, dB	29	27	30	28	27	31	32	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
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	-140	-140	-140

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Input Power per Port at 50°C,	300	300	300	300	300	100	100	100
maximum, watts								

## 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 3700-4200
Gain by all Beam Tilts, average, dBi	13.4	13.6	15.7	16.4	16.6	16.5	16.1	16.4
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.7	±0.4	±0.3	±0.6	±0.5	±0.5
Gain by Beam Tilt, average, dBi	0° 13.6 9° 13.5 18° 13.2	0° 13.8 9° 13.6 18° 12.7	0° 15.9 5° 16.0 10° 15.7	0° 16.4 5° 16.6 10° 16.4	0° 16.6 5° 16.7 10° 16.5			
Beamwidth, Horizontal Tolerance, degrees	±2.2	±1.8	±8.3	±2.9	±4.1	±11.4	±5	±8.5
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.8	±0.4	±0.4	±0.4	±0.6	±0.3	±0.5
USLS, beampeak to 20° above beampeak, dB			15	16	16	13	14	14
Front-to-Back Total Power at 180° ± 30°, dB	23	24	23	24	23	24	25	23
CPR at Boresight, dB	25	18	16	19	18	16	17	14
CPR at Sector, dB	11	8	10	10	9	7	6	7

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 169.0 N @ 150 km/h (38.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 208.0 N @ 150 km/h (46.8 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 380 mm | 14.961 in

 Depth, packed
 295 mm | 11.614 in

 Length, packed
 1537 mm | 60.512 in

 Weight, gross
 30.1 kg | 66.359 lb

#### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

**COMMSCOPE®** 

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

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

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





