

10-port sector antenna, 2x 698–896, 4x 1695–2360 and 4x 3100-4000 MHz, 65° HPBW, 3x RETs and 2x SBTs, active RET on C-Band, 1.8m Length

- 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 mid band allow remote RET control from the radio over the RF jumper cable
- Both mid bands are controlled by the same RET to ensure same tilt level for 4x MIMO. The high band RET is controlled via the mid band RET bus

#### 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

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 10

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

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

Input Voltage 10-30 Vdc

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

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

Power Consumption, idle state, maximum 2 W

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

**Dimensions** 

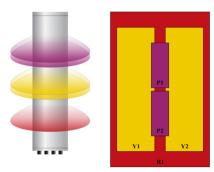
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

**Length** 1828 mm | 71.969 in

Net Weight, without mounting kit 23.1 kg | 50.927 lb

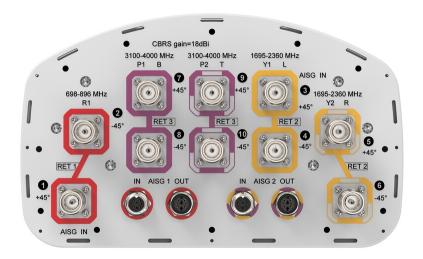
### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1	
Y1	1695-2360	3 - 4	2	AISG2	CPxxxxxxxxxxxxxxY1	
Y2	1695-2360	5 - 6	2	AISG2	CFXXXXXXXXXXXXXXX	
P1	3100-4000	7 - 8	2	NECO	60	
P2	3100-4000	9 - 10	3	AISG2	CPxxxxxxxxxxxxxxP1	

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

## Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 3100 – 4000 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	01850-199	01920-220	02200-236	03100-355	03550-370	03700-4000
Gain, dBi	14.8	15.2	17.5	17.7	17.9	17.8	17.8	17.5	17.8
Beamwidth, Horizontal, degrees	65	62	67	63	65	67	54	63	61
Beamwidth, Vertical, degrees	13	11.6	5.5	5.1	4.8	4.4	5.7	5.4	5
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	0-7	0-10	0-10	0-10
USLS (First Lobe), dB	15	15	16	17	18	14	16	17	18
Front-to-Back Ratio at 180°, dB	26	29	34	31	28	29	31	33	32
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	28	28	28

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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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50° C, maximum, watts	300	300	300	300	300	300	100	100	100

#### Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-188	01850-199	01920-220	02200-236	603100-355	503550-370	003700-4000
Gain by all Beam Tilts, average, dBi	14.6	14.8	17.1	17.5	17.7	17.5	17.3	17	17.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.5	±0.2	±0.3	±0.4	±0.7	±0.8	±0.8
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.3	±6.2	±2.7	±6.2	±5.5	±10.3	±8.1	±10.9
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.2	±0.2	±0.3	±0.2	±0.4	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	15	15	14	15	17	14	14	16	14
Front-to-Back Total Power at 180° ± 30°, dB	22	25	24	25	24	24	26	25	24
CPR at Boresight, dB	24	17	18	23	21	19	15	16	13
CPR at Sector, dB	12	6	12	10	8	8	8	8	5

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)

 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
 1973 mm | 77.677 in

 Weight, gross
 35.1 kg | 77.382 lb

#### Regulatory Compliance/Certifications

Agency Classification

**COMMSCOPE®** 

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





