

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 2x RET. Both high bands share the same electrical tilt.

- 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
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

#### General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

**Grounding Type**RF connector body grounded to reflector and mounting bracket

Performance Note

Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

**Radome Material** Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 7-16 DIN Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

#### Remote Electrical Tilt (RET) Information

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

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

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

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

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

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Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

**Width** 301 mm | 11.85 in

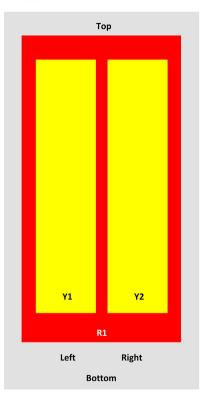
**Depth** 180 mm | 7.087 in

**Length** 2438 mm | 95.984 in

Net Weight, without mounting kit 23.1 kg | 50.927 lb

#### Array Layout

<u>NHH</u>



| Array | Freq<br>(MHz) | Conns | RET<br>(SRET) | AISG RET UID                            |
|-------|---------------|-------|---------------|---|
| R1    | 698-896       | 1-2   | 1             | ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| Y1    | 1695-2360     | 3-4   | 2             | ANxxxxxxxxxxxxxxxxxx2                   |
|       |               |       | 1             |   |

View from the front of the antenna (Sizes of colored boxes are not true depictions of array sizes)

# Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

# **Electrical Specifications**

| ı                                 |            |            |            |            |            |            |
|-----------------------------------|------------|------------|------------|------------|------------|------------|
| Frequency Band, MHz               | 698-806    | 806-896    | 1695-1880  | 1850-1990  | 1920-2200  | 2300-2360  |
| Gain, dBi                         | 15.5       | 15.6       | 17.1       | 17.5       | 17.9       | 17.9       |
| Beamwidth, Horizontal,<br>degrees | 81.5       | 83         | 81.5       | 78         | 78         | 79.7       |
| Beamwidth, Vertical, degrees      | 8.9        | 8.1        | 5.6        | 5.3        | 5          | 4.7        |
| Beam Tilt, degrees                | 0-10       | 0-10       | 0-8        | 0-8        | 0-8        | 0-8        |
| USLS (First Lobe), dB             | 17         | 17         | 15         | 18         | 19         | 18         |
| Front-to-Back Ratio at 180°, dB   | 30         | 30         | 34         | 30         | 30         | 28         |
| Isolation, Cross Polarization, dB | 25         | 25         | 25         | 25         | 25         | 25         |
| Isolation, Inter-band, dB         | 30         | 30         | 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 |
|                                   |            |            |            |            |            |            |

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| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 |
|-------------------------------|------|------|------|------|------|------|
| Input Power per Port at 50°C, | 300  | 300  | 250  | 250  | 250  | 200  |
| maximum, watts                |      |      |      |      |      |      |

## Electrical Specifications, BASTA

| Frequency Band, MHz                         | 698-806                                 | 806-896                        | 1695-1880                              | 1850-1990                     | 1920-2200                     | 2300-2360                     |
|---|---|--------------------------------|--|-------------------------------|-------------------------------|-------------------------------|
| Gain by all Beam Tilts,<br>average, dBi     | 15.4                                    | 15.4                           | 16.6                                   | 17.3                          | 17.6                          | 17.7                          |
| Gain by all Beam Tilts<br>Tolerance, dB     | ±0.2                                    | ±0.3                           | ±0.6                                   | ±0.3                          | ±0.4                          | ±0.4                          |
| Gain by Beam Tilt, average,<br>dBi          | 0 °   15.2<br>5 °   15.4<br>10 °   15.4 | 0° 15.1<br>5° 15.5<br>10° 15.6 | 0 °   16.6<br>4 °   16.6<br>8 °   16.4 | 0° 17.3<br>4° 17.3<br>8° 17.2 | 0° 17.6<br>4° 17.7<br>8° 17.5 | 0° 17.6<br>4° 17.8<br>8° 17.4 |
| Beamwidth, Horizontal<br>Tolerance, degrees | ±1.7                                    | ±1.5                           | ±4.5                                   | ±2.4                          | ±3.2                          | ±2                            |
| Beamwidth, Vertical<br>Tolerance, degrees   | ±0.4                                    | ±0.4                           | ±0.2                                   | ±0.2                          | ±0.3                          | ±0.3                          |
| USLS, beampeak to 20° above beampeak, dB    | 16                                      | 15                             | 14                                     | 15                            | 16                            | 17                            |
| Front-to-Back Total Power at 180° ± 30°, dB | 24                                      | 24                             | 26                                     | 25.6                          | 26                            | 25                            |
| CPR at Boresight, dB                        | 19                                      | 20                             | 19                                     | 19                            | 19                            | 21                            |
| CPR at Sector, dB                           | 13                                      | 15                             | 12                                     | 12                            | 11                            | 7                             |

#### Mechanical Specifications

| Effective Projective Area (EPA), frontal | 0.37 m <sup>2</sup>   3.983 ft <sup>2</sup> |
|--|---|
| Effective Projective Area (EPA), lateral | 0.31 m <sup>2</sup>   3.337 ft <sup>2</sup> |

Mechanical Tilt Range 0°-11°

 Wind Loading @ Velocity, frontal
 393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 330.0 N @ 150 km/h (74.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 757.0 N @ 150 km/h (170.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 398.0 N @ 150 km/h (89.5 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
 2571 mm | 101.221 in

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**Weight, gross** 30.4 kg | 67.02 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

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

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  |
|               |  |





