

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 TypeRF 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) | Mid band (1)

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

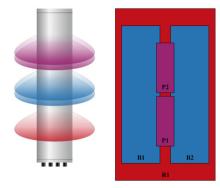
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 1413 mm | 55.63 in

 Net Weight, antenna only
 19.5 kg | 42.99 lb

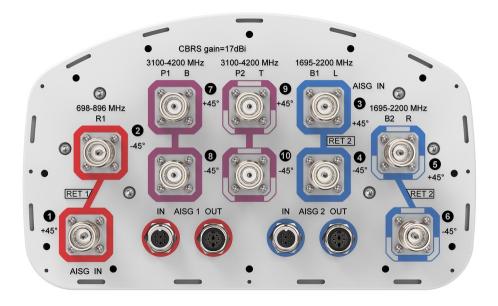
Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID | | |
|----------|-----------------|--------------|---------------|----------|-----------------------|--|--|
| R1 | 698-896 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxR1 | | |
| B1 | 1695-2200 | 3 - 4 | 2 | AICC3 | CD | | |
| B2 | 1695-2200 | 5 - 6 | 2 | AISG2 | CPxxxxxxxxxxxxxxxxxB1 | | |
| P1 | 3100-4200 | 7 - 8 | | | 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

| | R1 | R1 | B1,B2 | B1,B2 | B1,B2 | P1,P2 | P1,P2 | P1,P2 |
|------------------------------------|---------|---------|-----------|------------|------------|------------|------------|-------------|
| Frequency Band, MHz | 698-806 | 806-896 | 1695-1880 | 0 1850–199 | 0 1920-220 | 0 3100-355 | 0 3550-370 | 0 3700-4200 |
| 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 |
| 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 |

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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 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -140 | -140 | -140 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 300 | 300 | 100 | 100 | 100 |

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 |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.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

Agency

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

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.andrew.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



