

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 |
| 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 | 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 |

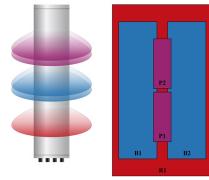
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| RET Interface, quantity | 2 female 2 male |
|------------------------------------------|----------------------------|
| Input Voltage | 10-30 Vdc |
| Internal Bias Tee | Port 1 Port 3 |
| Internal RET | Low band (1) |
| Power Consumption, active 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 | 2438 mm 95.984 in |

Net Weight, without mounting kit

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 | 41662 | CPxxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXX |
| B2 | 1695-2200 | 5 - 6 | 2 | AISG2 | CPXXXXXXXXXXXXXXXXX |
| P1 | 3100-4200 | 7 - 8 | | | |
| P2 | 3100-4200 | 9 - 10 | N/A | NA | N/A |

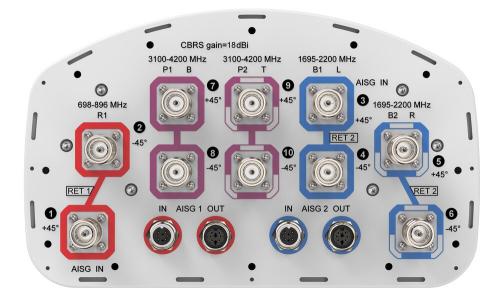
28.1 kg | 61.95 lb

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

Port Configuration

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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 1850–199 | 0 1920–220 | 0 3100-355 | 0 3550-370 | 0 3700-4200 |
|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Gain, dBi | 15.8 | 16 | 17.5 | 17.8 | 18 | 17.7 | 17.4 | 17.4 |
| Beamwidth, Horizontal, degrees | 64 | 62 | 67 | 62 | 63 | 59 | 65 | 63 |
| Beamwidth, Vertical, degrees | 8.9 | 7.9 | 5.6 | 5.2 | 5 | 5.6 | 5.2 | 4.9 |
| Beam Tilt, degrees | 0-11 | 0-11 | 0-7 | 0-7 | 0-7 | 4 | 4 | 4 |
| USLS (First Lobe), dB | 19 | 19 | 19 | 21 | 23 | 18 | 18 | 17 |
| Front-to-Back Ratio at 180°, dB | 28 | 31 | 32 | 31 | 28 | 30 | 33 | 31 |
| 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 | -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 | 15.5 | 15.8 | 17.1 | 17.6 | 17.7 | 17.3 | 17.1 | 17.1 |
| Gain by all Beam Tilts Tolerance, dB | ±0.5 | ±0.4 | ±0.6 | ±0.3 | ±0.3 | ±0.5 | ±0.5 | ±0.6 |
| Gain by Beam Tilt, average, dBi | 0 ° 15.9 5 ° 15.7 11 ° 15.3 | 0 ° 16.0 5 ° 16.0 11 ° 15.5 | 0 ° 17.0 3 ° 17.1 7 ° 17.0 | 0 ° 17.5 3 ° 17.6 7 ° 17.6 | 0 ° 17.6 3 ° 17.7 7 ° 17.6 | | | |
| Beamwidth, Horizontal Tolerance, degrees | ±1.8 | ±1.4 | ±5.9 | ±1.6 | ±3.9 | ±11 | ±5.6 | ±8.3 |
| Beamwidth, Vertical Tolerance, degrees | ±0.6 | ±0.7 | ±0.3 | ±0.2 | ±0.3 | ±0.4 | ±0.3 | ±0.3 |
| USLS, beampeak to 20° above beampeak, dB | 14 | 15 | 15 | 16 | 16 | 15 | 17 | 15 |
| Front-to-Back Total Power at 180° ± 30°, dB | 22 | 25 | 26 | 26 | 24 | 26 | 24 | 22 |
| CPR at Boresight, dB | 23 | 19 | 18 | 19 | 19 | 17 | 17 | 16 |
| CPR at Sector, dB | 11 | 9 | 10 | 9 | 8 | 8 | 7 | 6 |

Mechanical Specifications

| 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 |
| Weight, gross | 40.5 kg 89.287 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|-----------------------------------|
| CHINA-ROHS | Above maximum concentration value |
| ROHS | Compliant/Exempted |

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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

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