

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4000 MHz, 55° HPBW, 2x RETs.

- Superior SPR (Sector Power Ratio) for best-in-class data throughput rates
- Excellent pattern overlay across all bands
- Low band and mid band performance mirrors performance of the equivalent hex port antenna
- Internal SBTs on low and mid band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one MB RET. Both mid band arrays are controlled by one RET to ensure same tilt level for best 4x4 MIMO performance
- Utilizes Pattern Shaping Technology to reduce cell overlap and maximize SINR (Signal to Interference and Noise Ratio)
- Use optional BSAMNT-SBS-2-2 for side-by-side mounting of two hex and/or ten port 55° antennas

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, quantity | 2 female 2 male |
| Input Voltage | 10-30 Vdc |
| Internal Bias Tee | Port 1 Port 3 |

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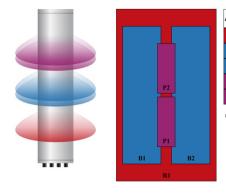
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| Internal RET | Low band (1) Mid band (1) |
|--|-----------------------------|
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |
| Dimensions | |
| Width | 395 mm 15.551 in |
| Depth | 228 mm 8.976 in |
| Length | 1413 mm 55.63 in |
| Net Weight, antenna only | 23.5 kg 51.809 lb |

Net Weight, antenna only

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | SBT RF PORT | SBT No. | RET UID |
|----------|--------------------|-----------------|---------------|-------------|----------------|------------|--------------------|
| R1 | 698-896 | 1 - 2 | 1 | AISG1 | 1 | 1 | CPxxxxxxxxxxxxxR1 |
| B1 | 1695-2200 | 3 - 4 | 2 | AISG2 | 3 | 2 | CPxxxxxxxxxxxxxxB1 |
| B2 | 1695-2200 | 5 - 6 | 2 | AISOZ | 3 | 2 | CPXXXXXXXXXXXXXXXX |
| P1 | 3100-4000 | 7 - 8 | | | | | 51/A |
| P2 | 3100-4000 | 9 - 10 | N/A | I/A NA | | | N/A |

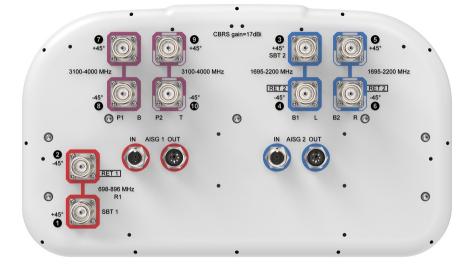
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



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Electrical Specifications

| Impedance | 50 ohm |
|----------------------------|---|
| Operating Frequency Band | 1695 - 2200 MHz 3100 - 4000 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 | 1695-188 | 0 1850–199 | 0 1920–220 | 0 3100–355 | 0 3550–370 | 0 3700-4000 |
| 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 | 14.3 | 14 | 16.8 | 17.1 | 17.4 | 15.7 | 16.4 | 17.3 |
| Beamwidth, Horizontal, degrees | 58 | 54 | 57 | 58 | 57 | 63 | 56 | 45 |
| Beamwidth, Vertical, degrees | 16.3 | 14 | 7 | 6.7 | 6.3 | 7.7 | 7.2 | 6.7 |
| Beam Tilt, degrees | 0-18 | 0-18 | 0-10 | 0-10 | 0-10 | 4 | 4 | 4 |
| USLS (First Lobe), dB | 16 | 15 | 17 | 16 | 16 | 15 | 15 | 15 |
| Front-to-Back Ratio at 180°, dB | 27 | 30 | 31 | 34 | 34 | 31 | 33 | 29 |
| Isolation, Cross Polarization, | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

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| üВ | | | | | | | | |
|---|----------|------------|----------|------------|----------|----------|----------|------------|
| 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 | -145 | -145 | -145 |
| Input Power per Port at 50°C, maximum, watts | 250 | 250 | 200 | 200 | 200 | 100 | 100 | 100 |

Mechanical Specifications

dB

| Wind Loading @ Velocity, frontal | 203.0 N @ 150 km/h (45.6 lbf @ 150 km/h) |
|----------------------------------|--|
| Wind Loading @ Velocity, lateral | 180.0 N @ 150 km/h (40.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 407.0 N @ 150 km/h (91.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 232.0 N @ 150 km/h (52.2 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| Width, packed | 505 mm 19.882 in |
|----------------|---------------------|
| Depth, packed | 386 mm 15.197 in |
| Length, packed | 1545 mm 60.827 in |
| Weight, gross | 36.4 kg 80.248 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|-----------------------------------|
| CHINA-ROHS | Above maximum concentration value |
| 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

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