

10-port sector antenna, 2x 698-894, 4x 1695–2360 and 4x 3100-4200 MHz, 65° HPBW, 3x RETs and 2x SBTs

- Perfect antenna to add 3.5GHz CBRS to macro sites
- 18dBi max CBRS gain to align with FCC max EIRP limitations
- Internal SBT on low and mid band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and mid band
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Two LB RET and one MB RET. Both mid bands are controlled by one RET to ensure same tilt level for 4x MIMO
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz

General Specifications

| Antenna Type | Sector with internal RET and bias tee |
|----------------------------------|----------------------------------------------------------------------------------|
| 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 | 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 | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 2 female 2 male |
| Input Voltage | 10-30 Vdc |

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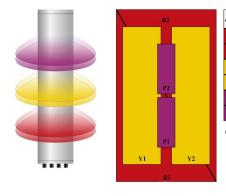


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| Internal Bias Tee | Port 1 Port 3 |
|------------------------------------------|-----------------------------|
| Internal RET | Low band (2) Mid band (1) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 |
| Dimensions | |
| Width | 350 mm 13.78 in |
| Depth | 208 mm 8.189 in |
| Length | 2438 mm 95.984 in |

Net Weight, antenna only

Array Layout



| rray ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID | | | |
|---------|-----------------|--------------|---------------|----------|-----------------------------------------|--|--|--|
| R1 | 698-894 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxR1 | | | |
| | 698-894 | 1 - 2 | 2 | AISG1 | CPxxxxxxxxxxxxxxR2 | | | |
| Y1 | 1695-2360 | 3 - 4 | 3 | AISG2 | CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX | | | |
| Y2 | 1695-2360 | 5 - 6 | 3 | AISGZ | CPXXXXXXXXXXXXXXXXX | | | |
| P1 | 3100-4200 | 7 - 8 | N1/A | | N/A | | | |
| P2 | 3100-4200 | 9 - 10 | N/A | NA | N/A | | | |

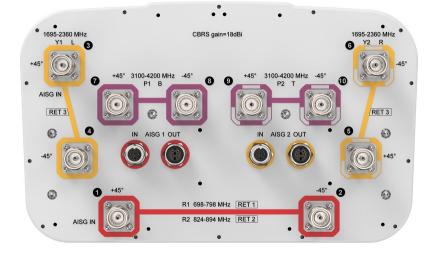
41 kg | 90.389 lb

(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 – 2360 MHz 3100 – 4200 MHz 698 – 798 MHz 824 – 894 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 900 W @ 50 °C |

Electrical Specifications

| | R1 | R2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | P1,P2 | P1,P2 | P1,P2 |
|------------------------------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|------------|
| Frequency Band, MHz | 698-798 | 824-894 | 1695-188 | 01850-199 | 01920-220 | 02200-236 | 03100-355 | 03550-370 | 03700-4200 |
| RF Port | 1,2 | 1,2 | 3,4,5,6 | 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 | 15.8 | 15.9 | 18.3 | 18.6 | 18.6 | 18.7 | 17.7 | 17.9 | 17.8 |
| Beamwidth, Horizontal, degrees | 63 | 61 | 62 | 57 | 61 | 69 | 57 | 54 | 60 |
| Beamwidth, Vertical, degrees | 8.8 | 7.8 | 5.4 | 5 | 4.7 | 5 | 5.6 | 5.2 | 5 |
| Beam Tilt, degrees | 0-11 | 0-11 | 0-10 | 0-10 | 0-10 | 0-10 | 4 | 4 | 4 |
| USLS (First Lobe), dB | 18 | 16 | 17 | 19 | 20 | 21 | 16 | 18 | 18 |
| Front-to-Back Ratio at 180°, dB | 33 | 34 | 26 | 28 | 29 | 33 | 31 | 29 | 25 |

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| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
|--------------------------------------------------|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Isolation, Inter-band, dB | 28 | 28 | 25 | 25 | 25 | 25 | 28 | 28 | 28 |
| 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 | 150 | 150 | 250 | 250 | 250 | 200 | 100 | 100 | 100 |

Mechanical Specifications

| Wind Loading @ Velocity, frontal | 425.0 N @ 150 km/h (95.5 lbf @ 150 km/h) |
|----------------------------------|-------------------------------------------|
| Wind Loading @ Velocity, lateral | 361.0 N @ 150 km/h (81.2 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 900.0 N @ 150 km/h (202.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 451.0 N @ 150 km/h (101.4 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| Width, packed | 456 mm 17.953 in |
|----------------|----------------------|
| Depth, packed | 357 mm 14.055 in |
| Length, packed | 2585 mm 101.772 in |
| Weight, gross | 56 kg 123.459 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--------------------------------------------------------------------------------|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

Included Products

| BSAMNT-4 |
|----------|
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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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