# JAHH-65C-R3B



8-port sector antenna, 2x 698–803, 2x 824-894 and 4x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5)

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

## 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** | 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, low band** | 4 |
| **RF Connector Quantity, total** | 8 |

## 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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| | |
|---|---|
| **Internal Bias Tee** | Port 1   \|   Port 5 |
| **Internal RET** | High band (1)   \|   Low band (2) |
| **Power Consumption, idle state, maximum** | 1 W |
| **Power Consumption, normal conditions, maximum** | 8 W |
| **Protocol** | 3GPP/AISG 2.0 (Single RET) |

## Dimensions

| | |
|---|---|
| **Width** | 350 mm   \|   13.78 in |
| **Depth** | 208 mm   \|   8.189 in |
| **Length** | 2438 mm   \|   95.984 in |
| **Net Weight, without mounting kit** | 36.1 kg   \|   79.587 lb |

## Array Layout
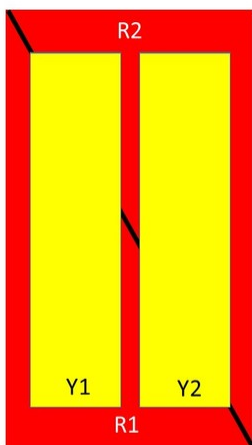


| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|---|---|---|---|---|
| R1 | 698-803 | 1-2 | 1 | CPxxxxxxxxxxxxxxxxR1 |
| R2 | 824-894 | 3-4 | 2 | CPxxxxxxxxxxxxxxxxR2 |
| Y1 | 1695-2360 | 5-6 | 3 | CPxxxxxxxxxxxxxxxxY1 |
| Y2 | 1695-2360 | 7-8 | | |

Left   Right
Bottom

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

## Port Configuration

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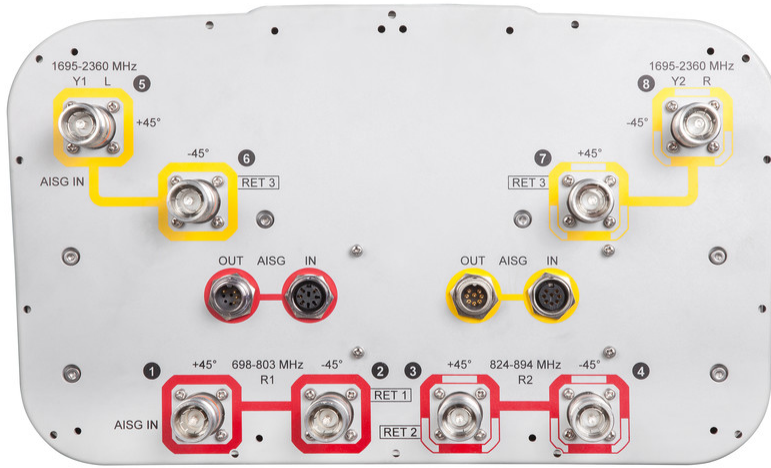


## Electrical Specifications

| | |
|---|---|
| **Impedance** | 50 ohm |
| **Operating Frequency Band** | 1695 – 2360 MHz   \|   698 – 803 MHz   \|   824 – 894 MHz |
| **Polarization** | ±45° |
| **Total Input Power, maximum** | 800 W @ 50 °C |

## Electrical Specifications

| Frequency Band, MHz | 698–803 | 824–894 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2360 |
|---|---|---|---|---|---|---|
| **Gain, dBi** | 15.5 | 16.2 | 18.2 | 18.6 | 18.7 | 18.7 |
| **Beamwidth, Horizontal, degrees** | 67 | 64 | 62 | 60 | 61 | 64 |
| **Beamwidth, Vertical, degrees** | 9.8 | 8.4 | 5.7 | 5.3 | 5 | 4.5 |
| **Beam Tilt, degrees** | 0–11 | 0–11 | 2–12 | 2–12 | 2–12 | 2–12 |
| **USLS (First Lobe), dB** | 23 | 22 | 20 | 20 | 21 | 20 |
| **Front-to-Back Ratio at 180°, dB** | 30 | 30 | 29 | 35 | 38 | 39 |
| **Isolation, Cross Polarization, dB** | 25 | 25 | 25 | 25 | 25 | 25 |
| **Isolation, Inter-band, dB** | 30 | 30 | 30 | 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 |

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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, maximum, watts | 200 | 200 | 250 | 250 | 250 | 200 |

## Electrical Specifications, BASTA

| Frequency Band, MHz | 698–803 | 824–894 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2360 |
| --- | --- | --- | --- | --- | --- | --- |
| Gain by all Beam Tilts, average, dBi | 15.2 | 16 | 17.5 | 18.2 | 18.3 | 18.3 |
| Gain by all Beam Tilts Tolerance, dB | ±0.3 | ±0.4 | ±0.7 | ±0.5 | ±0.5 | ±0.7 |
| Gain by Beam Tilt, average, dBi | 0 ° \| 15.2<br>5 ° \| 15.2<br>11 ° \| 15.2 | 0 ° \| 15.8<br>5 ° \| 16.0<br>11 ° \| 16.0 | 2 ° \| 17.2<br>7 ° \| 17.6<br>12 ° \| 17.5 | 2 ° \| 17.8<br>7 ° \| 18.4<br>12 ° \| 18.3 | 2 ° \| 17.8<br>7 ° \| 18.5<br>12 ° \| 18.4 | 2 ° \| 17.8<br>7 ° \| 18.4<br>12 ° \| 18.2 |
| Beamwidth, Horizontal Tolerance, degrees | ±1.1 | ±1.6 | ±3.9 | ±3 | ±3 | ±4.6 |
| Beamwidth, Vertical Tolerance, degrees | ±0.5 | ±0.4 | ±0.3 | ±0.2 | ±0.3 | ±0.2 |
| USLS, beampeak to 20° above beampeak, dB | 18 | 17 | 16 | 16 | 16 | 15 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25 | 23 | 25 | 31 | 29 | 30 |
| CPR at Boresight, dB | 23 | 22 | 20 | 23 | 22 | 19 |
| CPR at Sector, dB | 12 | 13 | 10 | 13 | 11 | 8 |

## Mechanical Specifications

| | |
| --- | --- |
| Effective Projective Area (EPA), frontal | 0.4 m²  \|  4.306 ft² |
| Effective Projective Area (EPA), lateral | 0.34 m²  \|  3.66 ft² |
| Mechanical Tilt Range | 0°–12° |
| 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 |

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| | |
|---|---|
| **Weight, gross** | 51.1 kg  \|  112.656 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.commscope.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 |
|---|---|

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# 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

| | |
|---|---|
| **Application** | Outdoor |
| **Color** | Silver |

## Dimensions

| | |
|---|---|
| **Compatible Diameter, maximum** | 115 mm   \|   4.528 in |
| **Compatible Diameter, minimum** | 60 mm   \|   2.362 in |
| **Weight, net** | 6.2 kg   \|   13.669 lb |

## Material Specifications

| | |
|---|---|
| **Material Type** | Galvanized steel |

## Packaging and Weights

| | |
|---|---|
| **Included** | Brackets   \|   Hardware |
| **Packaging quantity** | 1 |
| **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 |

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