

# RRZZ-65B-R4N43V2



8-port sector antenna, 4 x 694–960 and 4 x 1427–2690 MHz, 65° HPBW, 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

## General Specifications

|   |  |
|---|--|
| <b>Antenna Type</b>                     | Sector   |
| <b>Band</b>                             | Multiband  |
| <b>Grounding Type</b>                   | RF connector inner conductor and body grounded to reflector and mounting bracket |
| <b>Performance Note</b>                 | Outdoor usage  |
| <b>RF Connector Interface</b>           | 4.3-10 Female  |
| <b>RF Connector Location</b>            | Bottom   |
| <b>RF Connector Quantity, high band</b> | 0  |
| <b>RF Connector Quantity, mid band</b>  | 4  |
| <b>RF Connector Quantity, low band</b>  | 4  |
| <b>RF Connector Quantity, total</b>     | 8  |

## Remote Electrical Tilt (RET) Information

|   |                                   |
|---|-----------------------------------|
| <b>RET Hardware</b>                             | CommRET v2                        |
| <b>RET Interface</b>                            | 8-pin DIN Female   8-pin DIN Male |
| <b>RET Interface, quantity</b>                  | 2 female   2 male                 |
| <b>Input Voltage</b>                            | 10–30 Vdc                         |
| <b>Internal RET</b>                             | Low band (2)   Mid band (2)       |
| <b>Power Consumption, active state, maximum</b> | 8 W                               |
| <b>Power Consumption, idle state, maximum</b>   | 1 W                               |
| <b>Protocol</b>                                 | 3GPP/AISG 2.0 (Single RET)        |

## Dimensions

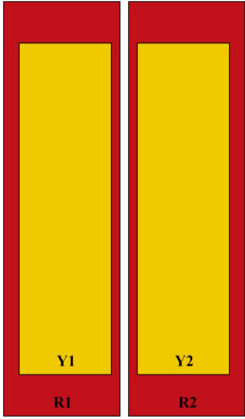
|              |                    |
|--------------|--------------------|
| <b>Width</b> | 430 mm   16.929 in |
| <b>Depth</b> | 197 mm   7.756 in  |

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**Length** 2100 mm | 82.677 in

**Net Weight, antenna only** 29.5 kg | 65.036 lb

## Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID         |
|----------|-----------------|--------------|------------|----------|----------------------|
| R1       | 694-960         | 1 - 2        | 1          | AISG1    | CPxxxxxxxxxxxxxxxxR1 |
| R2       | 694-960         | 3 - 4        | 2          | AISG1    | CPxxxxxxxxxxxxxxxxR2 |
| Y1       | 1427-2690       | 5 - 6        | 3          | AISG1    | CPxxxxxxxxxxxxxxxxY1 |
| Y2       | 1427-2690       | 7 - 8        | 4          | AISG1    | CPxxxxxxxxxxxxxxxxY2 |

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

## Port Configuration



## Electrical Specifications

**Impedance** 50 ohm

**Operating Frequency Band** 1427 – 2690 MHz | 694 – 960 MHz

**Polarization** ±45°

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Total Input Power, maximum

900 W @ 50 °C

## Electrical Specifications

|   | R1,R2          | R1,R2          | R1,R2          | Y1,Y2            | Y1,Y2            | Y1,Y2            | Y1,Y2            | Y1,Y2            |
|---|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|
| <b>Frequency Band, MHz</b>                          | <b>698–806</b> | <b>790–896</b> | <b>890–960</b> | <b>1427–1518</b> | <b>1695–1990</b> | <b>1920–2300</b> | <b>2300–2500</b> | <b>2490–2690</b> |
| <b>RF Port</b>                                      | 1-4            | 1-4            | 1-4            | 5-8              | 5-8              | 5-8              | 5-8              | 5-8              |
| <b>Gain at Mid Tilt, dBi</b>                        | 14.3           | 14.9           | 15.2           | 17.1             | 18.2             | 19.1             | 19.6             | 19.5             |
| <b>Beamwidth, Horizontal, degrees</b>               | 71             | 63             | 59             | 66               | 60               | 58               | 55               | 57               |
| <b>Beamwidth, Vertical, degrees</b>                 | 10.6           | 9.5            | 8.6            | 7.1              | 5.9              | 5.2              | 4.5              | 4.3              |
| <b>Beam Tilt, degrees</b>                           | 2–12           | 2–12           | 2–12           | 2–12             | 2–12             | 2–12             | 2–12             | 2–12             |
| <b>USLS (First Lobe), dB</b>                        | 21             | 19             | 17             | 20               | 18               | 18               | 17               | 18               |
| <b>Front-to-Back Ratio at 180°, dB</b>              | 34             | 33             | 32             | 31               | 34               | 35               | 38               | 37               |
| <b>CPR at Boresight, dB</b>                         | 22             | 21             | 17             | 19               | 19               | 15               | 19               | 20               |
| <b>CPR at Sector, dB</b>                            | 12             | 8              | 7              | 5                | 7                | 1                | 2                | 3                |
| <b>Isolation, Cross Polarization, dB</b>            | 27             | 27             | 27             | 26               | 26               | 26               | 26               | 26               |
| <b>Isolation, Inter-band, dB</b>                    | 27             | 27             | 27             | 26               | 26               | 26               | 26               | 26               |
| <b>VSWR   Return loss, dB</b>                       | 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         |
| <b>PIM, 3rd Order, 2 x 20 W, dBc</b>                | -153           | -153           | -153           | -153             | -153             | -153             | -153             | -153             |
| <b>Input Power per Port at 50°C, maximum, watts</b> | 250            | 250            | 250            | 200              | 200              | 200              | 150              | 150              |

## Mechanical Specifications

|   |   |
|---|---|
| <b>Wind Loading @ Velocity, frontal</b> | 494.0 N @ 150 km/h (111.1 lbf @ 150 km/h) |
| <b>Wind Loading @ Velocity, lateral</b> | 266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)  |
| <b>Wind Loading @ Velocity, maximum</b> | 780.0 N @ 150 km/h (175.4 lbf @ 150 km/h) |
| <b>Wind Loading @ Velocity, rear</b>    | 319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)  |
| <b>Wind Speed, maximum</b>              | 241 km/h (150 mph)                        |

## Packaging and Weights

|                       |                     |
|-----------------------|---------------------|
| <b>Width, packed</b>  | 530 mm   20.866 in  |
| <b>Depth, packed</b>  | 349 mm   13.74 in   |
| <b>Length, packed</b> | 2272 mm   89.449 in |
| <b>Weight, gross</b>  | 42.3 kg   93.255 lb |

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## 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| 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

**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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |

# BSAMNT-3

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