

# RRV4-65A-R6VB-V2



12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs

## 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                                                                         |
| Reflector Material               | Aluminum                                                                         |
| RF Connector Interface           | 4.3-10 Female                                                                    |
| RF Connector Location            | Bottom                                                                           |
| RF Connector Quantity, high band | 0                                                                                |
| RF Connector Quantity, mid band  | 8                                                                                |
| RF Connector Quantity, low band  | 4                                                                                |
| RF Connector Quantity, total     | 12                                                                               |

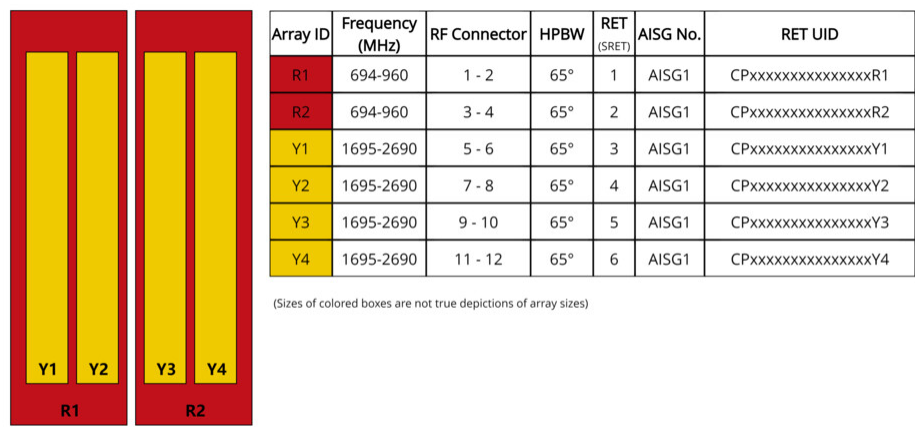
## Remote Electrical Tilt (RET) Information

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| RET Hardware                             | CommRET v2                        |
| RET Interface                            | 8-pin DIN Female   8-pin DIN Male |
| RET Interface, quantity                  | 1 female   1 male                 |
| Input Voltage                            | 10–30 Vdc                         |
| Internal RET                             | Low band (2)   Mid band (4)       |
| Power Consumption, active state, maximum | 10 W                              |
| Power Consumption, idle state, maximum   | 2 W                               |

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|                          |                            |
|--------------------------|----------------------------|
| Protocol                 | 3GPP/AISG 2.0 (Single RET) |
| Dimensions               |                            |
| Width                    | 499 mm   19.646 in         |
| Depth                    | 199 mm   7.835 in          |
| Length                   | 1490 mm   58.661 in        |
| Net Weight, antenna only | 28.8 kg   63.493 lb        |

## Array Layout



## Port Configuration



## Electrical Specifications

|                          |                                 |
|--------------------------|---------------------------------|
| Impedance                | 50 ohm                          |
| Operating Frequency Band | 1695 – 2690 MHz   694 – 960 MHz |

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|                            |         |
|----------------------------|---------|
| Polarization               | ±45°    |
| Total Input Power, maximum | 1,000 W |

## Electrical Specifications

|                                                    | R1,R2      | R1,R2      | R1,R2      | Y1-Y4      | Y1-Y4      | Y1-Y4      | Y1-Y4      |
|----------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Frequency Band, MHz                                | 694–806    | 790–894    | 890–960    | 1695–1995  | 1920–2300  | 2300–2500  | 2490–2690  |
| RF Port                                            | 1-4        | 1-4        | 1-4        | 5-12       | 5-12       | 5-12       | 5-12       |
| Gain, dBi                                          | 14.2       | 14.7       | 14.9       | 17.5       | 17.8       | 18.1       | 18.4       |
| Beamwidth, Horizontal, degrees                     | 65         | 61         | 67         | 68         | 66         | 62         | 56         |
| Beamwidth, Vertical, degrees                       | 15.9       | 14.4       | 13.4       | 6.4        | 5.9        | 5.1        | 4.8        |
| Beam Tilt, degrees                                 | 2–16       | 2–16       | 2–16       | 2–12       | 2–12       | 2–12       | 2–12       |
| USLS (First Lobe), dB                              | 18         | 19         | 20         | 16         | 20         | 19         | 17         |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 25         | 27         | 28         | 26         | 27         | 27         | 26         |
| CPR at Boresight, dB                               | 24         | 22         | 20         | 23         | 25         | 21         | 18         |
| Isolation, Cross Polarization, dB                  | 25         | 25         | 25         | 25         | 25         | 25         | 25         |
| Isolation, Inter-band, dB                          | 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 |
| PIM, 3rd Order, 2 x 20 W, dBc                      | -153       | -153       | -153       | -153       | -153       | -153       | -153       |
| Input Power per Port, maximum, watts               | 250        | 250        | 250        | 200        | 200        | 200        | 200        |

## Mechanical Specifications

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Wind Loading @ Velocity, frontal | 422.0 N @ 150 km/h (94.9 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, lateral | 197.0 N @ 150 km/h (44.3 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, rear    | 748.0 N @ 150 km/h (168.2 lbf @ 150 km/h) |
| Wind Speed, maximum              | 200 km/h (124 mph)                        |

## Packaging and Weights

|                |                     |
|----------------|---------------------|
| Width, packed  | 570 mm   22.441 in  |
| Depth, packed  | 275 mm   10.827 in  |
| Length, packed | 1775 mm   69.882 in |
| Weight, gross  | 39.7 kg   87.523 lb |

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## Regulatory Compliance/Certifications

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

## Included Products

|               |   |                                                                                                                                                                  |
|---------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BSAMNT-B92-08 | – | 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-B92-08



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** 4.4 kg | 9.7 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Weight, gross** 4.8 kg | 10.582 lb

## Regulatory Compliance/Certifications

| Agency        | Classification                                                                 |
|---------------|--------------------------------------------------------------------------------|
| CE            | Compliant with the relevant CE product directives                              |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

