

# RRV4-65A-R6N43



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
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Antenna shape optimized for wind load reduction
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band

## 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                                                         |
| 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

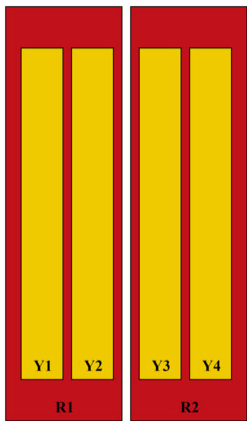
|                                          |                                   |
|------------------------------------------|-----------------------------------|
| RET Hardware                             | CommRET v2                        |
| RET Interface                            | 8-pin DIN Female   8-pin DIN Male |
| RET Interface, quantity                  | 2 female   2 male                 |
| Input Voltage                            | 10–30 Vdc                         |
| Internal RET                             | Low band (2)   Mid band (4)       |
| Power Consumption, active state, maximum | 8 W                               |
| Power Consumption, idle state, maximum   | 1 W                               |
| Protocol                                 | 3GPP/AISG 2.0 (Single RET)        |

# RRV4-65A-R6N43

## Dimensions

|                          |                     |
|--------------------------|---------------------|
| Width                    | 430 mm   16.929 in  |
| Depth                    | 197 mm   7.756 in   |
| Length                   | 1549 mm   60.984 in |
| Net Weight, antenna only | 28.7 kg   63.273 lb |

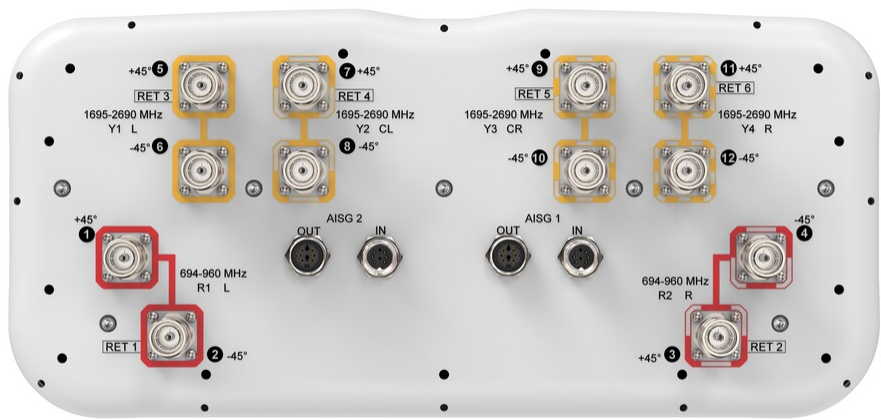
## Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET<br>(SRET) | AISG No. | AISG RET UID       |
|----------|-----------------|--------------|---------------|----------|--------------------|
| R1       | 694-960         | 1 - 2        | 1             | AISG1    | CPxxxxxxxxxxxxxxR1 |
| R2       | 694-960         | 3 - 4        | 2             | AISG1    | CPxxxxxxxxxxxxxxR2 |
| Y1       | 1695-2690       | 5 - 6        | 3             | AISG1    | CPxxxxxxxxxxxxxxY1 |
| Y2       | 1695-2690       | 7 - 8        | 4             | AISG1    | CPxxxxxxxxxxxxxxY2 |
| Y3       | 1695-2690       | 9 - 10       | 5             | AISG1    | CPxxxxxxxxxxxxxxY3 |
| Y4       | 1695-2690       | 11 - 12      | 6             | AISG1    | CPxxxxxxxxxxxxxxY4 |

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

## Port Configuration



## Electrical Specifications

|           |        |
|-----------|--------|
| Impedance | 50 ohm |
|-----------|--------|

# RRV4-65A-R6N43

|                            |                                 |
|----------------------------|---------------------------------|
| Operating Frequency Band   | 1695 – 2690 MHz   694 – 960 MHz |
| Polarization               | ±45°                            |
| Total Input Power, maximum | 900 W @ 50 °C                   |

## Electrical Specifications

|                                              | R1,R2      | R1,R2      | R1,R2      | Y1-Y4      | Y1-Y4      | Y1-Y4      | Y1-Y4      |
|----------------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Frequency Band, MHz                          | 698–806    | 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 at Mid Tilt, dBi                        | 13.4       | 13.7       | 13.9       | 16.3       | 17.5       | 18.2       | 18         |
| Beamwidth, Horizontal, degrees               | 60         | 55         | 52         | 70         | 65         | 59         | 59         |
| Beamwidth, Vertical, degrees                 | 13.3       | 12.2       | 11.1       | 6.2        | 5.5        | 4.9        | 4.7        |
| Beam Tilt, degrees                           | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       |
| USLS (First Lobe), dB                        | 13         | 15         | 14         | 16         | 16         | 18         | 18         |
| Front-to-Back Ratio at 180°, dB              | 27         | 26         | 27         | 30         | 31         | 34         | 34         |
| CPR at Boresight, dB                         | 20         | 19         | 21         | 21         | 21         | 18         | 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 at 50°C, maximum, watts | 300        | 300        | 300        | 250        | 250        | 200        | 200        |

## Mechanical Specifications

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Wind Loading @ Velocity, frontal | 364.0 N @ 150 km/h (81.8 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, lateral | 196.0 N @ 150 km/h (44.1 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, maximum | 575.0 N @ 150 km/h (129.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear    | 235.0 N @ 150 km/h (52.8 lbf @ 150 km/h)  |
| Wind Speed, maximum              | 241 km/h (150 mph)                        |

## Packaging and Weights

|                |                     |
|----------------|---------------------|
| Width, packed  | 530 mm   20.866 in  |
| Depth, packed  | 349 mm   13.74 in   |
| Length, packed | 1721 mm   67.756 in |

# RRV4-65A-R6N43

**Weight, gross** 34.7 kg | 76.5 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant                                                                                                                      |
| UK-ROHS       | Compliant                                                                                                                      |



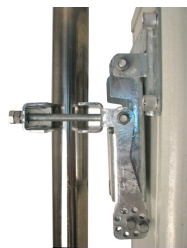
## Included Products

|          |   |                                                                                                                                                                  |
|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| <b>Performance Note</b> | 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

---

