

# RV4-65D-R5-V9



10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET with tilt indicators

- 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

**OBSOLETE**

This product was discontinued on: November 30, 2023

## 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   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN |
| <b>Radome Material</b>                  | Fiberglass, UV resistant   |
| <b>Radiator Material</b>                | Low loss circuit board   |
| <b>Reflector Material</b>               | Aluminum   |
| <b>RF Connector Interface</b>           | 7-16 DIN Female  |
| <b>RF Connector Location</b>            | Bottom   |
| <b>RF Connector Quantity, high band</b> | 8  |
| <b>RF Connector Quantity, mid band</b>  | 0  |
| <b>RF Connector Quantity, low band</b>  | 2  |
| <b>RF Connector Quantity, total</b>     | 10   |

## 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>Power Consumption, idle state, maximum</b> | 1 W                               |

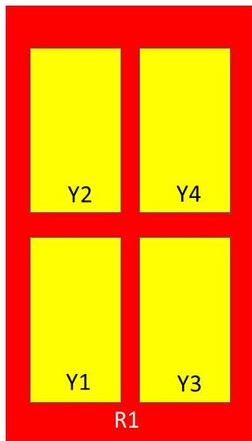
# RV4-65D-R5-V9

**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** 2688 mm | 105.827 in  
**Net Weight, without mounting kit** 31.8 kg | 70.107 lb

## Array Layout



| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID         |
|-------|------------|-------|------------|----------------------|
| R1    | 694-960    | 1-2   | 1          | CPxxxxxxxxxxxxxxxxR1 |
| Y1    | 1695-2690  | 3-4   | 2          | CPxxxxxxxxxxxxxxxxY1 |
| Y2    | 1695-2690  | 5-6   | 3          | CPxxxxxxxxxxxxxxxxY2 |
| Y3    | 1695-2690  | 7-8   | 4          | CPxxxxxxxxxxxxxxxxY3 |
| Y4    | 1695-2690  | 9-10  | 5          | CPxxxxxxxxxxxxxxxxY4 |

Left                      Right  
 Bottom

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

## Port Configuration

# RV4-65D-R5-V9



## Electrical Specifications

|                                   |                                 |
|-----------------------------------|---------------------------------|
| <b>Impedance</b>                  | 50 ohm                          |
| <b>Operating Frequency Band</b>   | 1695 – 2690 MHz   694 – 960 MHz |
| <b>Polarization</b>               | ±45°                            |
| <b>Total Input Power, maximum</b> | 800 W @ 50 °C                   |

## Electrical Specifications

| Frequency Band, MHz                      | 694–790  | 790–890  | 890–960  | 1695–1880 | 1920–2200 | 2300–2500 | 2500–2690 |
|--|----------|----------|----------|-----------|-----------|-----------|-----------|
| <b>Gain, dBi</b>                         | 16.3     | 16.7     | 16.9     | 16.9      | 17.5      | 17.6      | 17.1      |
| <b>Beamwidth, Horizontal, degrees</b>    | 70       | 68       | 67       | 62        | 61        | 61        | 62        |
| <b>Beamwidth, Vertical, degrees</b>      | 8.2      | 7.4      | 6.8      | 7.4       | 6.4       | 5.6       | 5.2       |
| <b>Beam Tilt, degrees</b>                | 0–10     | 0–10     | 0–10     | 2–12      | 2–12      | 2–12      | 2–12      |
| <b>USLS (First Lobe), dB</b>             | 18       | 24       | 19       | 16        | 17        | 16        | 17        |
| <b>Front-to-Back Ratio at 180°, dB</b>   | 26       | 30       | 32       | 33        | 38        | 35        | 32        |
| <b>Isolation, Cross Polarization, dB</b> | 28       | 28       | 28       | 25        | 25        | 25        | 25        |
| <b>Isolation, Inter-band, dB</b>         | 28       | 28       | 28       | 28        | 28        | 28        | 28        |
| <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  |

# RV4-65D-R5-V9

|   |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|
| <b>PIM, 3rd Order, 2 x 20 W, dBc</b>                | -150 | -150 | -150 | -150 | -150 | -150 | -150 |
| <b>Input Power per Port at 50°C, maximum, watts</b> | 250  | 250  | 250  | 200  | 200  | 200  | 200  |

## Mechanical Specifications

|   |   |
|---|---|
| <b>Mechanical Tilt Range</b>            | 0°–12°                                      |
| <b>Wind Loading @ Velocity, frontal</b> | 477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)   |
| <b>Wind Loading @ Velocity, lateral</b> | 409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)    |
| <b>Wind Loading @ Velocity, maximum</b> | 1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h) |
| <b>Wind Loading @ Velocity, rear</b>    | 506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)   |
| <b>Wind Speed, maximum</b>              | 241 km/h (150 mph)                          |

## Packaging and Weights

|                       |                       |
|-----------------------|-----------------------|
| <b>Width, packed</b>  | 460 mm   18.11 in     |
| <b>Depth, packed</b>  | 350 mm   13.78 in     |
| <b>Length, packed</b> | 2830 mm   111.417 in  |
| <b>Weight, gross</b>  | 460 kg   1,014.125 lb |

## Regulatory Compliance/Certifications

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

## 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

---

