# RVV-65D-R3VB01

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## General Specifications

| | |
|---|---|
| **Antenna Type** | Sector |
| **Band** | Multiband |
| **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, mid band** | 4 |
| **RF Connector Quantity, low band** | 2 |
| **RF Connector Quantity, total** | 6 |

## 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 (1) \| Mid band (2) |
| **Power Consumption, active state, maximum** | 13 W |
| **Power Consumption, idle state, maximum** | 2 W |
| **Protocol** | 3GPP/AISG 2.0 (Single RET) |

## Dimensions

| | |
|---|---|
| **Width** | 397 mm \| 15.63 in |

# RVV-65D-R3VB01

| | |
|---|---|
| **Depth** | 157 mm \| 6.181 in |
| **Length** | 2547 mm \| 100.276 in |
| **Net Weight, without mounting kit** | 28.5 kg \| 62.832 lb |

## Array Layout


| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | RET UID |
|---|---|---|---|---|---|
| R1 | 694-960 | 1 - 2 | 1 | AISG1 | ANxxxxxxxxxxxxxxR1 |
| Y1 | 1695-2690 | 3 - 4 | 2 | AISG1 | ANxxxxxxxxxxxxxxY1 |
| Y2 | 1695-2690 | 5 - 6 | 3 | AISG1 | ANxxxxxxxxxxxxxxY2 |

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

## Port Configuration


## Electrical Specifications

| | |
|---|---|
| **Impedance** | 50 ohm |
| **Operating Frequency Band** | 1695 – 2690 MHz \| 694 – 960 MHz |
| **Polarization** | ±45° |
| **Total Input Power, maximum** | 900 W |

## Electrical Specifications

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **R1** | **R1** | **R1** | **Y1,Y2** | **Y1,Y2** | **Y1,Y2** | **Y1,Y2** |

# RVV-65D-R3VB01

| Frequency Band, MHz | 694–790 | 790–890 | 890–960 | 1695–1920 | 1920–2200 | 2300–2500 | 2500–2690 |
|---|---|---|---|---|---|---|---|
| **RF Port** | 1,2 | 1,2 | 1,2 | 3-6 | 3-6 | 3-6 | 3-6 |
| **Gain, dBi** | 16.7 | 17.3 | 17.7 | 17.5 | 18.4 | 18.9 | 19.2 |
| **Beamwidth, Horizontal, degrees** | 66 | 62 | 59 | 67 | 64 | 64 | 63 |
| **Beamwidth, Vertical, degrees** | 8.6 | 7.7 | 7 | 5.7 | 5 | 4.3 | 4 |
| **Beam Tilt, degrees** | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| **USLS (First Lobe), dB** | 17 | 18 | 17 | 18 | 20 | 19 | 18 |
| **Front-to-Back Ratio, Copolarization 180° ± 30°, dB** | 28 | 31 | 31 | 27 | 31 | 31 | 28 |
| **CPR at Boresight, dB** | 23 | 26 | 25 | 26 | 25 | 31 | 31 |
| **Isolation, Cross Polarization, dB** | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| **Isolation, Inter-band, dB** | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| **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** | 669.0 N @ 150 km/h (150.4 lbf @ 150 km/h) |
| **Wind Loading @ Velocity, lateral** | 366.0 N @ 150 km/h (82.3 lbf @ 150 km/h) |
| **Wind Loading @ Velocity, rear** | 1,080.0 N @ 150 km/h (242.8 lbf @ 150 km/h) |
| **Wind Speed, maximum** | 200 km/h (124 mph) |

## Packaging and Weights

| | |
|---|---|
| **Width, packed** | 472 mm \| 18.583 in |
| **Depth, packed** | 232 mm \| 9.134 in |
| **Length, packed** | 2787 mm \| 109.724 in |
| **Weight, gross** | 40.6 kg \| 89.508 lb |

## Regulatory Compliance/Certifications

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

# RVV-65D-R3VB01

## Included Products

| | | |
|---|---|---|
| BSAMNT-B95-04A | – | 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

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|---|---|
| **Performance Note** | Severe environmental conditions may degrade optimum performance |