

# VVSSP-65S-R1BV2



10-port small cell antenna, 4x 1695–2690, 4x 3400–3800 and 2x 5150–5925 MHz. 65° HPBW, Internal RET and SBT

## OBSOLETE

This product was discontinued on: November 29, 2023

### Replaced By:

VVSSP-65S-R1BV2-V4    10-port small cell antenna, 4x 1695–2690, 4x 3300–4200 and 2x 5150–5925 MHz. 65° HPBW, Internal RET and SBT

## General Specifications

|                                  |  |
|----------------------------------|--|
| Antenna Type                     | Small Cell   |
| 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                  | PVC, UV resistant  |
| Radiator Material                | Low loss circuit board   |
| Reflector Material               | Aluminum   |
| RF Connector Location            | Bottom   |
| RF Connector Quantity, high band | 10   |
| RF Connector Quantity, mid band  | 0  |
| RF Connector Quantity, low band  | 0  |
| RF Connector Quantity, total     | 10   |

## Remote Electrical Tilt (RET) Information

|                         |                |
|-------------------------|----------------|
| RET Interface           | 8-pin DIN Male |
| RET Interface, quantity | 1 male         |
| Input Voltage           | 10–30 Vdc      |
| Internal Bias Tee       | Port 1         |

# VVSSP-65S-R1BV2

|  |                            |
|--|----------------------------|
| Internal RET                             | High band (1)              |
| Power Consumption, active state, maximum | 1 W                        |
| Power Consumption, idle state, maximum   | 10 W                       |
| Protocol                                 | 3GPP/AISG 2.0 (Single RET) |

## Dimensions

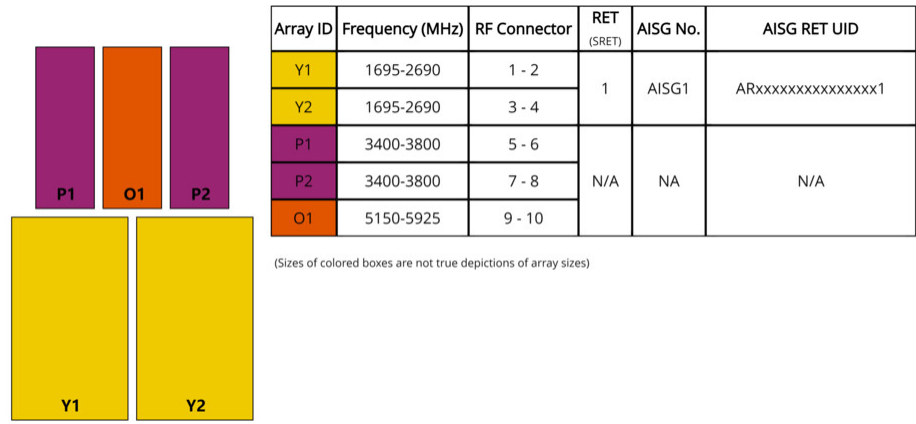
|                          |                    |
|--------------------------|--------------------|
| Width                    | 305 mm   12.008 in |
| Depth                    | 118 mm   4.646 in  |
| Length                   | 600 mm   23.622 in |
| Net Weight, antenna only | 6.9 kg   15.212 lb |

## 5 GHz Port Power Table

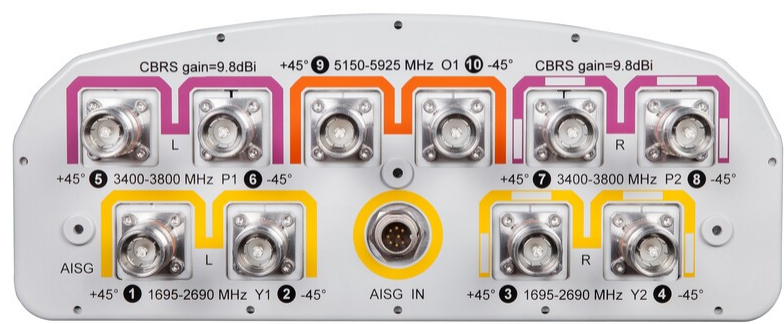
| 5 GHz FCC Power Requirements  |             |             |             |             |
|---|-------------|-------------|-------------|-------------|
| U-NII Band  | U-NII 1     | U-NII 2A    | U-NII 2C    | U-NII 3     |
| Frequency (MHz)   | 5150 - 5250 | 5250 - 5350 | 5470 - 5725 | 5725 - 5850 |
| Max Input power per port to align with FCC Title 47 Part 15 (Watts) | 0.5         | 0.125       | 0.125       | 0.5         |

# VVSSP-65S-R1BV2

## Array Layout



## Port Configuration



## Electrical Specifications

|                            |   |
|----------------------------|---|
| Impedance                  | 50 ohm  |
| Operating Frequency Band   | 1695 – 2690 MHz   3400 – 3800 MHz   5150 – 5925 MHz |
| Polarization               | ±45°  |
| Total Input Power, maximum | 300 W @ 50 °C                                       |

# VVSSP-65S-R1BV2

## Electrical Specifications

| Frequency Band, MHz                          | 1695–1920  | 1920–2200  | 2300–2690  | 3400–3800  | 5150–5925  |
|--|------------|------------|------------|------------|------------|
| Gain, dBi                                    | 12.6       | 13.1       | 13.5       | 10.4       | 4.6        |
| Gain at Mid Tilt, dBi                        | 12.3       | 12.8       | 13         |            |            |
| Beamwidth, Horizontal, degrees               | 70         | 72         | 65         | 69         | 60         |
| Beamwidth, Vertical, degrees                 | 20.7       | 18.1       | 15.6       | 34.1       | 26.1       |
| Beam Tilt, degrees                           | 2–10       | 2–10       | 2–10       | 4          | 4          |
| USLS (First Lobe), dB                        | 14         | 18         | 16         | 15         | 11         |
| Front-to-Back Ratio at 180°, dB              | 26         | 24         | 29         | 27         | 30         |
| CPR at Boresight, dB                         | 22         | 16         | 15         | 14         | 10         |
| Isolation, Cross Polarization, dB            | 25         | 25         | 25         | 25         | 25         |
| Isolation, Inter-band, dB                    | 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 |
| PIM, 3rd Order, 2 x 20 W, dBc                | -153       | -153       | -150       |            |            |
| Input Power per Port at 50°C, maximum, watts | 75         | 75         | 75         | 35         | 5          |

## Mechanical Specifications

|                                  |  |
|----------------------------------|--|
| Wind Loading @ Velocity, frontal | 198.0 N @ 150 km/h (44.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 37.0 N @ 150 km/h (8.3 lbf @ 150 km/h)   |
| Wind Loading @ Velocity, rear    | 240.0 N @ 150 km/h (54.0 lbf @ 150 km/h) |
| Wind Speed, maximum              | 241 km/h (150 mph)                       |

## Packaging and Weights

|                |                    |
|----------------|--------------------|
| Width, packed  | 404 mm   15.906 in |
| Depth, packed  | 276 mm   10.866 in |
| Length, packed | 772 mm   30.394 in |
| Weight, gross  | 9.4 kg   20.723 lb |

## Regulatory Compliance/Certifications

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

# VVSSP-65S-R1BV2

---

## Included Products

|          |   |   |
|----------|---|---|
| BSAMNT-3 | – | Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.<br>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

---

