

# FFVV-65C-R2



8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 2x RET

- Antenna includes 2xSingle Column X-Pol Arrays for 617-894MHz and 2xSingle Column X-Pol Arrays for 1695-2690MHz

## 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  | 4                                                                                |
| RF Connector Quantity, low band  | 4                                                                                |
| RF Connector Quantity, total     | 8                                                                                |

## 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 (1)       |
| Power Consumption, active state, maximum | 10 W                              |
| Power Consumption, idle state, maximum   | 2 W                               |

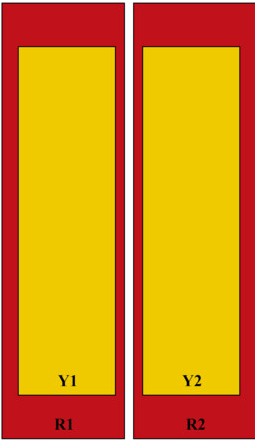
## Dimensions

|       |                    |
|-------|--------------------|
| Width | 498 mm   19.606 in |
|-------|--------------------|

# FFVV-65C-R2

|                          |                     |
|--------------------------|---------------------|
| Depth                    | 197 mm   7.756 in   |
| Length                   | 2438 mm   95.984 in |
| Net Weight, antenna only | 40.6 kg   89.508 lb |

## Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID      |
|----------|-----------------|--------------|------------|----------|-------------------|
| R1       | 617-894         | 1 - 2        | 1          | AISG1    | CPxxxxxxxxxxxxxR1 |
| R2       | 617-894         | 3 - 4        |            |          |                   |
| Y1       | 1695-2690       | 5 - 6        | 2          | AISG1    | CPxxxxxxxxxxxxxY1 |
| Y2       | 1695-2690       | 7 - 8        |            |          |                   |

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

## Port Configuration



## Electrical Specifications

|                            |                                 |
|----------------------------|---------------------------------|
| Impedance                  | 50 ohm                          |
| Operating Frequency Band   | 1695 – 2690 MHz   617 – 894 MHz |
| Polarization               | ±45°                            |
| Total Input Power, maximum | 900 W @ 50 °C                   |

# FFVV-65C-R2

## Electrical Specifications

| Frequency Band, MHz                          | 617–698    | 698–894    | 1695–1880  | 1850–1990  | 1920–2200  | 2300–2500  | 2500–2690  |
|----------------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Gain at Mid Tilt, dBi                        | 15.4       | 15.8       | 18.3       | 18.5       | 18.5       | 18.9       | 18.8       |
| Beamwidth, Horizontal, degrees               | 65         | 63         | 68         | 69         | 68         | 55         | 45         |
| Beamwidth, Vertical, degrees                 | 10.3       | 8.9        | 5.6        | 5.3        | 5          | 4.5        | 4.2        |
| Beam Tilt, degrees                           | 2–13       | 2–13       | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       |
| USLS (First Lobe), dB                        | 18         | 17         | 20         | 21         | 21         | 19         | 17         |
| Front-to-Back Ratio at 180°, dB              | 29         | 28         | 34         | 37         | 37         | 34         | 31         |
| CPR at Boresight, dB                         | 17         | 16         | 18         | 20         | 20         | 18         | 20         |
| 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                | -150       | -150       | -150       | -150       | -150       | -150       | -150       |
| Input Power per Port at 50°C, maximum, watts | 250        | 250        | 200        | 200        | 200        | 200        | 200        |

## Mechanical Specifications

|                                          |                                             |
|------------------------------------------|---------------------------------------------|
| Effective Projective Area (EPA), frontal | 0.81 m²   8.719 ft²                         |
| Effective Projective Area (EPA), lateral | 0.25 m²   2.691 ft²                         |
| Wind Loading @ Velocity, frontal         | 865.0 N @ 150 km/h (194.5 lbf @ 150 km/h)   |
| Wind Loading @ Velocity, lateral         | 268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)    |
| Wind Loading @ Velocity, maximum         | 1,037.0 N @ 150 km/h (233.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear            | 595.0 N @ 150 km/h (133.8 lbf @ 150 km/h)   |
| Wind Speed, maximum                      | 241 km/h (150 mph)                          |

## Packaging and Weights

|                |                      |
|----------------|----------------------|
| Width, packed  | 565 mm   22.244 in   |
| Depth, packed  | 309 mm   12.165 in   |
| Length, packed | 2685 mm   105.709 in |
| Weight, gross  | 61.4 kg   135.364 lb |

## Regulatory Compliance/Certifications

| Agency | Classification |
|--------|----------------|
|--------|----------------|

# FFVV-65C-R2

---

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



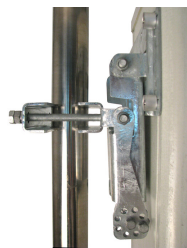
## Included Products

|          |   |                                                                                                                                                                  |
|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| BSAMNT-M | – | Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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

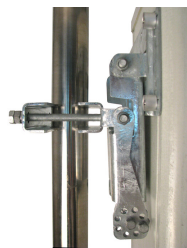
**Weight, gross** 6.4 kg | 14.11 lb

## 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-M



Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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** 4.5 kg | 9.921 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

## 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.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant                                                                                                                |
| UK-ROHS       | Compliant                                                                                                                |

