

# FFVV-65B-R2-HG



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

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2690 MHz

## 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                                                                    |
| 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                               |
| Protocol                                 | 3GPP/AISG 2.0 (Single RET)        |

## Dimensions

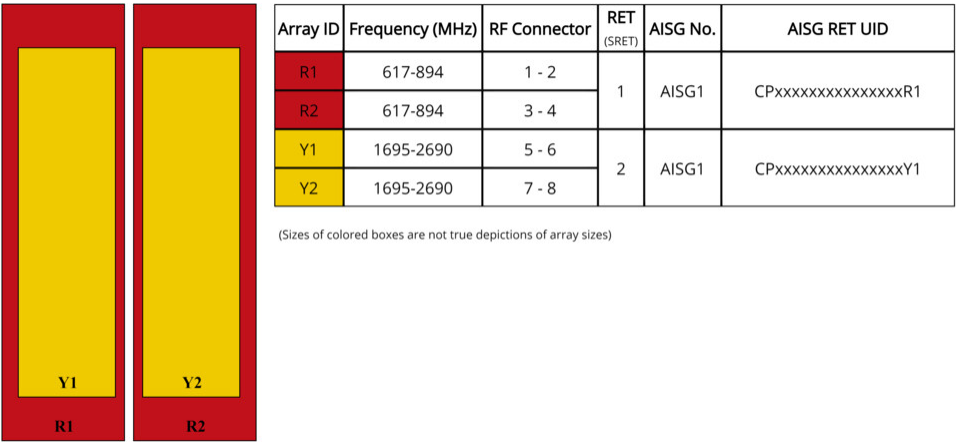
|        |                     |
|--------|---------------------|
| Width  | 640 mm   25.197 in  |
| Depth  | 235 mm   9.252 in   |
| Length | 1828 mm   71.969 in |

# FFVV-65B-R2-HG

Net Weight, antenna only

45.2 kg | 99.649 lb

## Array Layout



## Port Configuration



## Electrical Specifications

Impedance

50 ohm

Operating Frequency Band

1695 – 2690 MHz | 617 – 894 MHz

Polarization

±45°

# FFVV-65B-R2-HG

Total Input Power, maximum 900 W @ 50 °C

## Electrical Specifications

|                                              | R1,R2      | R1,R2      | R1,R2      | Y1,Y2      | Y1,Y2      | Y1,Y2      | Y1,Y2      | Y1,Y2      |
|----------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Frequency Band, MHz                          | 617-698    | 698-806    | 806-894    | 1695-1880  | 1850-1990  | 1920-2200  | 2300-2500  | 2500-2690  |
| RF Port                                      | 1-4        | 1-4        | 1-4        | 5-8        | 5-8        | 5-8        | 5-8        | 5-8        |
| Gain, dBi                                    | 14.5       | 15.1       | 15.9       | 18.4       | 18.8       | 19.1       | 19.4       | 19.6       |
| Beamwidth, Horizontal, degrees               | 67         | 64         | 58         | 65         | 58         | 60         | 52         | 51         |
| Beamwidth, Vertical, degrees                 | 12.8       | 11.5       | 10.5       | 5.1        | 4.8        | 4.5        | 4          | 3.8        |
| Beam Tilt, degrees                           | 2-12       | 2-12       | 2-12       | 2-9        | 2-9        | 2-9        | 2-9        | 2-9        |
| USLS (First Lobe), dB                        | 18         | 17         | 15         | 16         | 18         | 18         | 17         | 17         |
| Front-to-Back Ratio at 180°, dB              | 29         | 33         | 34         | 37         | 39         | 37         | 33         | 31         |
| CPR at Boresight, dB                         | 16         | 17         | 17         | 20         | 23         | 20         | 22         | 19         |
| Isolation, Cross Polarization, dB            | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         |
| Isolation, Inter-band, dB                    | 25         | 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 | 1.5   14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc                | -150       | -150       | -150       | -150       | -150       | -150       | -150       | -150       |
| Input Power per Port at 50°C, maximum, watts | 250        | 250        | 250        | 200        | 200        | 200        | 200        | 200        |

## Mechanical Specifications

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Wind Loading @ Velocity, frontal | 715.0 N @ 150 km/h (160.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, maximum | 911.0 N @ 150 km/h (204.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear    | 446.0 N @ 150 km/h (100.3 lbf @ 150 km/h) |
| Wind Speed, maximum              | 241.4 km/h (150 mph)                      |

## Packaging and Weights

|                |                     |
|----------------|---------------------|
| Width, packed  | 752 mm   29.606 in  |
| Depth, packed  | 387 mm   15.236 in  |
| Length, packed | 1982 mm   78.032 in |
| Weight, gross  | 58.4 kg   128.75 lb |



# FFVV-65B-R2-HG

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## Regulatory Compliance/Certifications

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

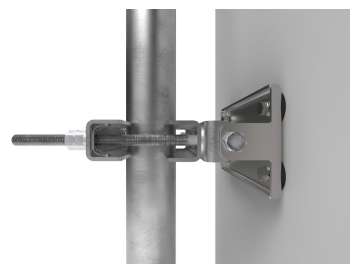
## Included Products

|           |   |                                                                                                                    |
|-----------|---|--------------------------------------------------------------------------------------------------------------------|
| BSAMNT-2F | – | Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications. |
|-----------|---|--------------------------------------------------------------------------------------------------------------------|

## \* Footnotes

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

# BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

## Product Classification

**Product Type** Fixed tilt 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** 3.8 kg | 8.378 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 4 kg | 8.818 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-2F

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