

# RRZZ2VV-6533D-R8



16-port sector/multibeam antenna 4x 694–960 MHz, 4x 1427-2690 MHz 65° HPBW and 8x 1695–2690 MHz 2x 2-Beam 33°HPBW, 8x RET

- Optional Mounting Kits with mechanical tilt capacity need to be ordered separately
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- "Green" packaging of reduced size and gross weight that uses less material and reduces shipping pollution
- GREEN and High Capacity Antenna Solution

## General Specifications

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| Antenna Type                     | Multibeam                                                                        |
| 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  | 12                                                                               |
| RF Connector Quantity, low band  | 4                                                                                |
| RF Connector Quantity, total     | 16                                                                               |

## Remote Electrical Tilt (RET) Information

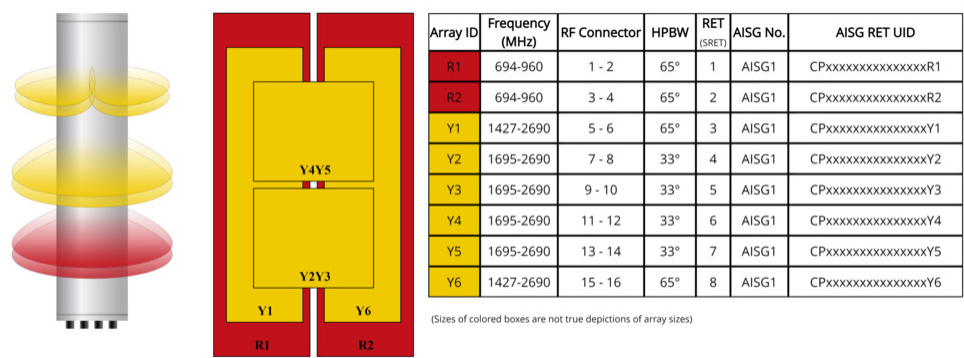
|                                          |                                   |
|------------------------------------------|-----------------------------------|
| RET Hardware                             | CommRET v2                        |
| RET Interface                            | 8-pin DIN Female   8-pin DIN Male |
| RET Interface, quantity                  | 2 female   2 male                 |
| Input Voltage                            | 10–30 Vdc                         |
| Internal RET                             | Low band (2)   Mid band (6)       |
| Power Consumption, active state, maximum | 8 W                               |
| Power Consumption, idle state, maximum   | 1 W                               |
| Protocol                                 | 3GPP/AISG 2.0 (Single RET)        |

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## Dimensions

|                          |                      |
|--------------------------|----------------------|
| Width                    | 498 mm   19.606 in   |
| Depth                    | 197 mm   7.756 in    |
| Length                   | 2577 mm   101.457 in |
| Net Weight, antenna only | 50 kg   110.231 lb   |

## Array Layout



## Port Configuration



## Electrical Specifications

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Impedance                  | 50 ohm                                            |
| Operating Frequency Band   | 1427 – 2690 MHz   1695 – 2690 MHz   694 – 960 MHz |
| Polarization               | ±45°                                              |
| Total Input Power, maximum | 1,700 W @ 50 °C                                   |

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## Electrical Specifications

| Frequency Band, MHz                          | 698–806    | 790–894    | 890–960    | 1427–1518  | 1695–1995  | 1920–2300  | 2300–2500  | 2490–2690  |
|----------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| RF Port                                      | 1,2,3,4    | 1,2,3,4    | 1,2,3,4    | 5,6,15,16  | 5,6,15,16  | 5,6,15,16  | 5,6,15,16  | 5,6,15,16  |
| Gain at Mid Tilt, dBi                        | 15.4       | 15.6       | 15.8       | 15.2       | 16.9       | 17.8       | 18.5       | 18.9       |
| Beamwidth, Horizontal, degrees               | 70         | 68         | 65         | 82         | 75         | 68         | 61         | 57         |
| Beamwidth, Vertical, degrees                 | 9.5        | 8.7        | 8          | 7.2        | 5.9        | 5.3        | 4.7        | 4.5        |
| Beam Tilt, degrees                           | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       | 2–12       |
| USLS (First Lobe), dB                        | 21         | 19         | 17         | 20         | 17         | 17         | 17         | 19         |
| Front-to-Back Ratio at 180°, dB              | 29         | 29         | 31         | 31         | 32         | 30         | 32         | 33         |
| Front-to-Back Total Power at 180° ± 30°, dB  | 21         | 21         | 20         | 22         | 23         | 23         | 24         | 23         |
| 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                | -153       | -153       | -153       | -153       | -153       | -153       | -153       | -153       |
| Input Power per Port at 50°C, maximum, watts | 250        | 250        | 250        | 200        | 200        | 200        | 200        | 200        |

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## Electrical Specifications

| Frequency Band, MHz                         | 1710–1995            | 1920–2300            | 2300–2500            | 2490–2690            |
|---------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| RF Port                                     | 7,8,9,10,11,12,13,14 | 7,8,9,10,11,12,13,14 | 7,8,9,10,11,12,13,14 | 7,8,9,10,11,12,13,14 |
| Gain at Mid Tilt, dBi                       | 17.8                 | 19                   | 19.3                 | 19.7                 |
| Beamwidth, Horizontal, degrees              | 35                   | 32                   | 29                   | 26                   |
| Beamwidth, Vertical, degrees                | 7.2                  | 6.5                  | 5.8                  | 5.3                  |
| Beam Tilt, degrees                          | 2–12                 | 2–12                 | 2–12                 | 2–12                 |
| USLS (First Lobe), dB                       | 16                   | 17                   | 17                   | 16                   |
| Front-to-Back Ratio at 180°, dB             | 34                   | 36                   | 34                   | 33                   |
| Front-to-Back Total Power at 180° ± 30°, dB | 28                   | 30                   | 29                   | 28                   |
| Isolation, Cross Polarization, dB           | 25                   | 25                   | 25                   | 25                   |
| Isolation, Inter-band, dB                   | 25                   | 25                   | 25                   | 25                   |
| Isolation, Beam to Beam, dB                 | 17                   | 17                   | 17                   | 17                   |
| VSWR   Return loss, dB                      | 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                 |
| Input Power per Port at 50°C,               | 200                  | 200                  | 200                  | 200                  |

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maximum,  
watts

## Mechanical Specifications

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Wind Loading @ Velocity, frontal | 899.0 N @ 150 km/h (202.1 lbf @ 150 km/h)   |
| Wind Loading @ Velocity, lateral | 278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)    |
| Wind Loading @ Velocity, maximum | 1,076.0 N @ 150 km/h (241.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear    | 619.0 N @ 150 km/h (139.2 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 | 2764 mm   108.819 in |
| Weight, gross  | 66 kg   145.505 lb   |

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



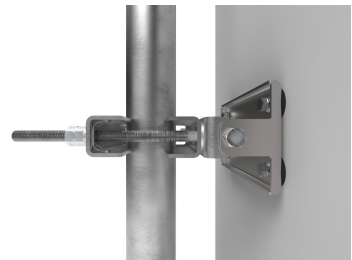
## Included Products

|           |   |                                                                                                                    |
|-----------|---|--------------------------------------------------------------------------------------------------------------------|
| BSAMNT-3F | – | 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-3F



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** 5.6 kg | 12.346 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 5.8 kg | 12.787 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-3F

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