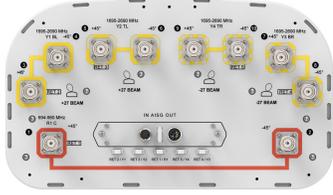


R2VV-6533C-R5-V3



10-port sector/multibeam antenna, 2x 694-960 and 8x 1695-2690 MHz, 65°|4x 33° HPBW, 5x RET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs – 3 antennas required for 6 sector configurations

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 |
| Radiator Material | Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 8 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, total | 10 |

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 | High band (4) Low band (1) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

R2VV-6533C-R5-V3

Dimensions

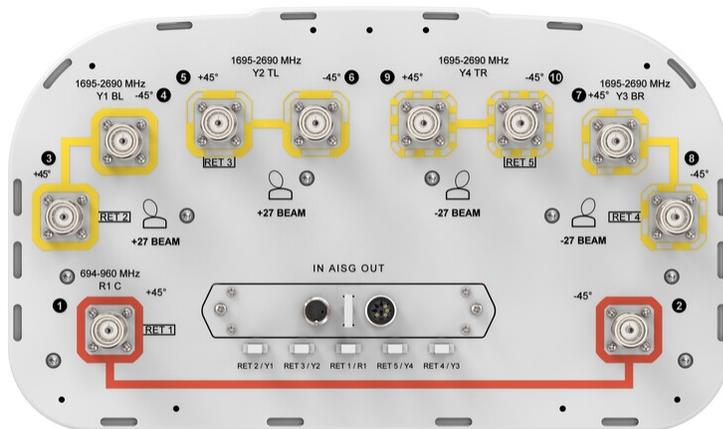
| | |
|---------------------------------|---------------------|
| Width | 395 mm 15.551 in |
| Depth | 228 mm 8.976 in |
| Length | 2499 mm 98.386 in |
| Net Weight, antenna only | 39.2 kg 86.421 lb |

Array Layout



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

Port Configuration



Electrical Specifications

R2VV-6533C-R5-V3

| | |
|-----------------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1695 – 2690 MHz 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 1,200 W @ 50 °C |

Electrical Specifications

| | R1 | R1 | R1 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 |
|---|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|
| Frequency Band, MHz | 694–790 | 790–890 | 880–960 | 1695–1880 | 1850–1990 | 1920–2180 | 2300–2400 | 2490–2690 |
| RF Port | 1,2 | 1,2 | 1,2 | 3 - 10 | 3 - 10 | 3 - 10 | 3 - 10 | 3 - 10 |
| Gain, dBi | 16.3 | 16.4 | 16.2 | 18.1 | 18.6 | 19.3 | 19.3 | 18.6 |
| Beamwidth, Horizontal, degrees | 65 | 66 | 67 | 39 | 39 | 37 | 33 | 34 |
| Beamwidth, Vertical, degrees | 9 | 8 | 7.2 | 7.9 | 7.4 | 7 | 6.2 | 5.8 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 17 | 19 | 15 | 16 | 16 | 17 | 18 | 19 |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 24 | 24 | 25 | 23 | 25 | 27 | 30 | 28 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 28 | 28 | 28 | 28 | 28 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 28 | 28 | 28 | 28 | 28 |
| Isolation, Beam to Beam, 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 | 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 | 300 | 300 | 300 | 200 | 200 | 200 | 200 | 200 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 525.0 N @ 150 km/h (118.0 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 386.0 N @ 150 km/h (86.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 898.0 N @ 150 km/h (201.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 540.0 N @ 150 km/h (121.4 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|----------------------|--------------------|
| Width, packed | 505 mm 19.882 in |
| Depth, packed | 386 mm 15.197 in |

R2VV-6533C-R5-V3

Length, packed 2631 mm | 103.583 in
Weight, gross 53.2 kg | 117.286 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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

BSAMNT-4 – 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

Performance Note Severe environmental conditions may degrade optimum performance