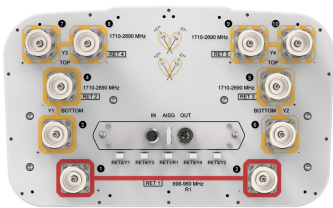


R2VV-6533B-R5



10-port sector/multi beam antenna, 2x 698-960 sector and 8x 1710-2690 multi beam, 65° sector and 33° 4x multi beam, 5x RET with tilt indicators

- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces
- Optimized radome design leading to market leading wind load performance
- Antenna with integrated pluggable RET and retractable tilt scale indicators

General Specifications

| | |
|----------------------------------|--|
| Antenna Type | Multibeam |
| Band | Multiband |
| 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 | Copper Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 7-16 DIN 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

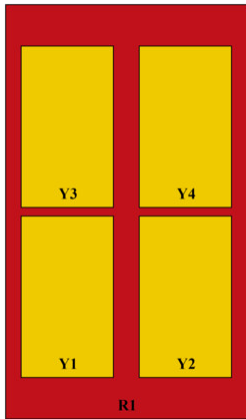
| | |
|--|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | High band (4) Low band (1) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

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Dimensions

| | |
|--------------------------|---------------------|
| Width | 350 mm 13.78 in |
| Depth | 208 mm 8.189 in |
| Length | 2100 mm 82.677 in |
| Net Weight, antenna only | 29.8 kg 65.698 lb |

Array Layout

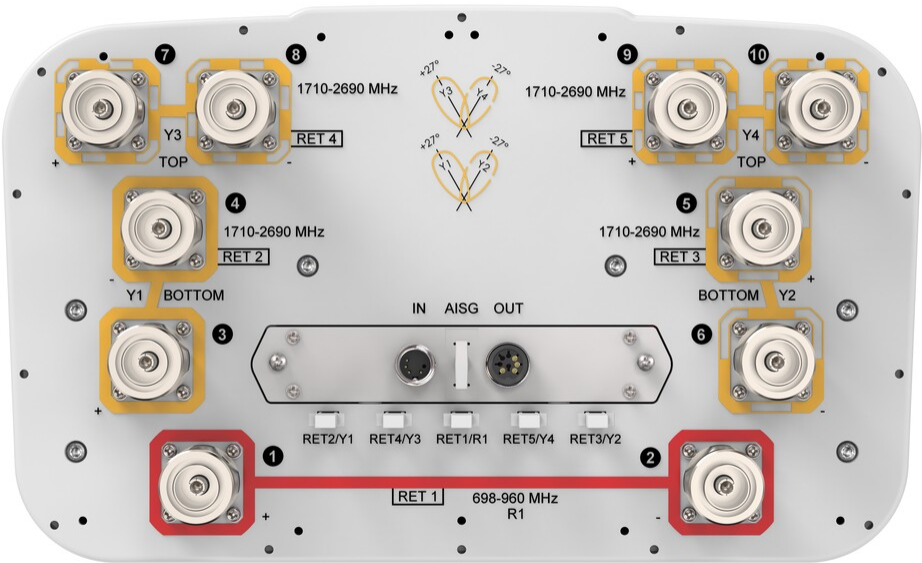


| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG RET UID |
|----------|-----------------|--------------|---------------|--------------------|
| R1 | 698-960 | 1 - 2 | 1 | CPxxxxxxxxxxxxxxR1 |
| Y1 | 1710-2690 | 3 - 4 | 2 | CPxxxxxxxxxxxxxxY1 |
| Y2 | 1710-2690 | 5 - 6 | 3 | CPxxxxxxxxxxxxxxY2 |
| Y3 | 1710-2690 | 7 - 8 | 4 | CPxxxxxxxxxxxxxxY3 |
| Y4 | 1710-2690 | 9 - 10 | 5 | CPxxxxxxxxxxxxxxY4 |

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

Port Configuration

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Electrical Specifications

| | |
|----------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1710 – 2690 MHz 698 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 1,000 W @ 50 °C |

Electrical Specifications

| | R1 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 |
|-----------------------------------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Frequency Band, MHz | 698–790 | 790–890 | 890–960 | 1710–1880 | 1920–2170 | 2300–2400 | 2490–2690 |
| RF Port | 1,2 | 1,2 | 1,2 | 3-10 | 3-10 | 3-10 | 3-10 |
| Gain, dBi | 15 | 15 | 15.2 | 17 | 18.2 | 18.5 | 18.4 |
| Beam Centers, Horizontal, degrees | | | | ±27 | ±27 | ±27 | ±27 |
| Beamwidth, Horizontal, degrees | 71 | 70 | 73 | 34 | 31 | 27 | 25 |
| Beamwidth, Vertical, degrees | 11 | 9.9 | 9.2 | 8.7 | 7.8 | 7 | 6.5 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 20 | 22 | 18 | 16 | 17 | 19 | 17 |

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| | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|
| Front-to-Back Ratio at 180°, dB | 38 | 32 | 28 | 35 | 34 | 34 | 32 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Beam to Beam, dB | | | | 16 | 16 | 16 | 16 |
| 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 | 300 | 300 | 300 | 250 | 250 | 200 | 200 |

Mechanical Specifications

| | |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 300.0 N @ 150 km/h (67.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 752.0 N @ 150 km/h (169.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 376.0 N @ 150 km/h (84.5 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|----------------|---------------------|
| Width, packed | 460 mm 18.11 in |
| Depth, packed | 350 mm 13.78 in |
| Length, packed | 2240 mm 88.189 in |
| Weight, gross | 43.8 kg 96.562 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.andrew.com/ProductCompliance |
| 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. |
|----------|---|---|

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Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance