

RVV-33B-R3



6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 33° HPBW, 3x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration

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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN |
| Radome Material | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, mid band | 4 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, total | 6 |

Remote Electrical Tilt (RET) Information

| | |
|---|-----------------------------------|
| 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 (2) |
| Power Consumption, active state, maximum | 13 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

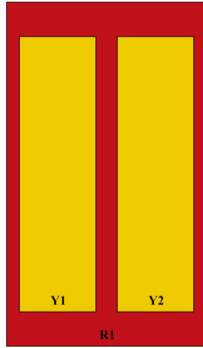
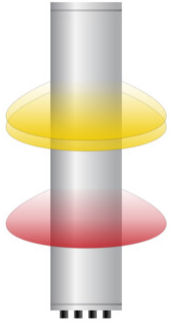
| | |
|--------------|--------------------|
| Width | 640 mm 25.197 in |
| Depth | 235 mm 9.252 in |

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Length 1830 mm | 72.047 in

Net Weight, antenna only 44 kg | 97.003 lb

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|---------------------|
| R1 | 694-960 | 1 - 2 | 1 | AISG1 | ANxxxxxxxxxxxxxxxx1 |
| Y1 | 1695-2690 | 3 - 4 | 2 | AISG1 | ANxxxxxxxxxxxxxxxx2 |
| Y2 | 1695-2690 | 5 - 6 | 3 | AISG1 | ANxxxxxxxxxxxxxxxx3 |

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 694 – 960 MHz

Polarization $\pm 45^\circ$

Total Input Power, maximum 900 W @ 50 °C

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Electrical Specifications

| | R1 | R1 | R1 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 |
|---|----------------|----------------|----------------|------------------|------------------|------------------|------------------|
| Frequency Band, MHz | 698–806 | 790–896 | 890–960 | 1695–1990 | 1920–2300 | 2300–2500 | 2490–2690 |
| RF Port | 1,2 | 1,2 | 1,2 | 3,4,5,6 | 3,4,5,6 | 3,4,5,6 | 3,4,5,6 |
| Gain at Mid Tilt, dBi | 17.5 | 18.2 | 18.6 | 19.8 | 20.5 | 21.3 | 21.3 |
| Beamwidth, Horizontal, degrees | 36 | 32 | 30 | 34 | 33 | 28 | 26 |
| Beamwidth, Vertical, degrees | 12.4 | 11.2 | 10.5 | 5.6 | 5 | 4.5 | 4.2 |
| Beam Tilt, degrees | 2–13 | 2–13 | 2–13 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 20 | 20 | 20 | 19 | 20 | 17 | 18 |
| Front-to-Back Ratio at 180°, dB | 33 | 36 | 35 | 35 | 35 | 34 | 35 |
| Isolation, Cross Polarization, dB | 28 | 26 | 26 | 28 | 28 | 28 | 28 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 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 | 200 | 200 | 200 | 200 |

Electrical Specifications, BASTA

| | 698–806 | 790–896 | 890–960 | 1695–1990 | 1920–2300 | 2300–2500 | 2490–2690 |
|--|----------------|----------------|----------------|------------------|------------------|------------------|------------------|
| Frequency Band, MHz | 698–806 | 790–896 | 890–960 | 1695–1990 | 1920–2300 | 2300–2500 | 2490–2690 |
| Gain by all Beam Tilts, average, dBi | 17.4 | 18.1 | 18.5 | 19.7 | 20.4 | 21.2 | 21.1 |
| Gain by all Beam Tilts Tolerance, dB | ±0.6 | ±0.3 | ±0.4 | ±0.7 | ±0.7 | ±0.5 | ±0.7 |
| Beamwidth, Horizontal Tolerance, degrees | ±3 | ±1 | ±1 | ±1 | ±3 | ±2 | ±1 |
| Beamwidth, Vertical Tolerance, degrees | ±0.9 | ±0.7 | ±0.4 | ±0.4 | ±0.4 | ±0.3 | ±0.3 |
| USLS, beampeak to 20° above beampeak, dB | 20 | 20 | 19 | 18 | 19 | 17 | 17 |
| Front-to-Back Total Power at 180° ± 30°, dB | 28 | 28 | 27 | 29 | 28 | 29 | 29 |
| CPR at Boresight, dB | 20 | 19 | 18 | 20 | 20 | 20 | 22 |
| CPR at 10 dB Horizontal Beamwidth, dB | 9.4 | 9.4 | 16.6 | 13.6 | 14.2 | 12 | 11 |

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Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 764.0 N @ 150 km/h (171.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 254.0 N @ 150 km/h (57.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 1,148.0 N @ 150 km/h (258.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 785.0 N @ 150 km/h (176.5 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 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 | 66.4 kg 146.387 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| CHINA-ROHS | Above maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS | Compliant/Exempted |
| UK-ROHS | Compliant/Exempted |



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

| | |
|-------------------------|---|
| Performance Note | 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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

BSAMNT-3



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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

