

VV-65B-R1B



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and internal Bias-T on first highband port. The two highband arrays utilize a common tilt.

- The RET interface comprises one pair of AISG input/output ports

OBSOLETE

This product was discontinued on: **March 31, 2021**

Replaced By:

VV-65B-R1B-V2

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and internal Bias-T on first highband port. The two highband arrays utilize a common tilt.

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| Band | Single band |
| Grounding Type | RF connector body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage |
| Radome Material | PVC |
| RF Connector Interface | 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, total | 4 |

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 Bias Tee | Port 1 |
| Internal RET | High band (1) |
| Power Consumption, idle state, maximum | 2 W |

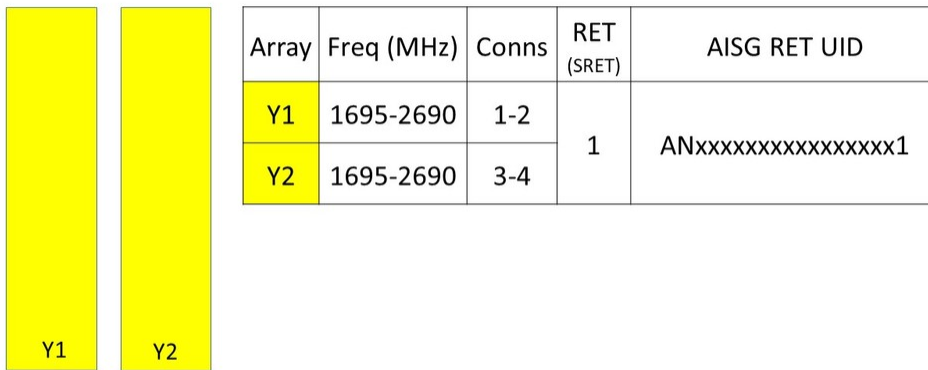
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| | |
|--|----------------------------|
| Power Consumption, normal conditions, maximum | 13 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

| | |
|---|---------------------|
| Width | 305 mm 12.008 in |
| Depth | 118 mm 4.646 in |
| Length | 1786 mm 70.315 in |
| Net Weight, without mounting kit | 13.4 kg 29.542 lb |

Array Layout



Left Bottom Right (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 | 1695 – 2690 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 400 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2500 | 2500–2690 |
|--|-----------|-----------|-----------|-----------|-----------|
| Gain, dBi | 18.3 | 18.9 | 19.4 | 19.1 | 19.5 |
| Beamwidth, Horizontal, degrees | 66 | 66 | 61 | 61 | 57 |
| Beamwidth, Vertical, degrees | 5.6 | 5.2 | 4.3 | 4.3 | 4.1 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 19 | 19 | 17 | 17 | 18 |
| Front-to-Back Ratio at 180°, dB | 32 | 34 | 35 | 35 | 36 |
| Isolation, Cross Polarization, dB | 30 | 30 | 30 | 30 | 30 |
| Isolation, Inter-band, dB | 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 |

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| | | | | | |
|---|------|------|------|------|------|
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port, maximum, watts | 350 | 350 | 350 | 350 | 300 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 696.0 N @ 150 km/h (156.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 163.0 N @ 150 km/h (36.6 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 761.0 N @ 150 km/h (171.1 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 410 mm 16.142 in |
| Depth, packed | 270 mm 10.63 in |
| Length, packed | 1955 mm 76.969 in |
| Weight, gross | 24 kg 52.911 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 |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| 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. |
|----------|---|--|

* 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

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BSAMNT-3

