

RVV-65D-R3VB



6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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 |
| Radome Material | Fiberglass, UV resistant |
| Radiator Material | Aluminum |
| 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

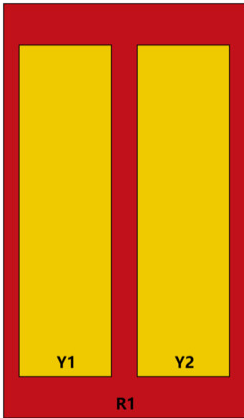
| | |
|-------------------------------------------------|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Low band (1) Mid band (2) |
| Power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

Dimensions

RVV-65D-R3VB

| | |
|---------------------------------|----------------------|
| Width | 397 mm 15.63 in |
| Depth | 157 mm 6.181 in |
| Length | 2547 mm 100.276 in |
| Net Weight, antenna only | 28.5 kg 62.832 lb |

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|----------------------|
| R1 | 694-960 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxxxR1 |
| Y1 | 1695-2690 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxxxxxY1 |
| Y2 | 1695-2690 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxxxxxY2 |

(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 | ±45° |
| Total Input Power, maximum | 900 W |

RVV-65D-R3VB

Electrical Specifications

| Frequency Band, MHz | 694–790 | 790–890 | 890–960 | 1695–1920 | 1920–2200 | 2300–2500 | 2500–2690 |
|----------------------------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Gain, dBi | 16.7 | 17.3 | 17.7 | 17.5 | 18.4 | 18.9 | 19.2 |
| Beamwidth, Horizontal, degrees | 66 | 62 | 59 | 67 | 64 | 64 | 63 |
| Beamwidth, Vertical, degrees | 8.6 | 7.7 | 7 | 5.7 | 5 | 4.3 | 4 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 17 | 18 | 17 | 18 | 20 | 19 | 18 |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 28 | 31 | 31 | 27 | 31 | 31 | 28 |
| Isolation, Cross Polarization, dB | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Isolation, Inter-band, dB | 28 | 28 | 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 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port, maximum, watts | 250 | 250 | 250 | 200 | 200 | 200 | 200 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 694–790 | 790–890 | 890–960 | 1695–1920 | 1920–2200 | 2300–2500 | 2500–2690 |
|------------------------------------------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Gain by all Beam Tilts, average, dBi | 16.4 | 17.1 | 17.5 | 17.3 | 17.9 | 18.6 | 18.8 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.3 | ±0.2 | ±0.4 | ±0.7 | ±0.5 | ±0.4 |
| Beamwidth, Horizontal Tolerance, degrees | ±2 | ±1.4 | ±1.7 | ±6.1 | ±4.7 | ±2.8 | ±4.2 |
| Beamwidth, Vertical Tolerance, degrees | ±0.4 | ±0.4 | ±0.3 | ±0.4 | ±0.4 | ±0.2 | ±0.2 |
| CPR at Boresight, dB | 23 | 26 | 25 | 26 | 25 | 31 | 31 |

Mechanical Specifications

| | |
|----------------------------------|---------------------------------------------|
| Wind Loading @ Velocity, frontal | 669.0 N @ 150 km/h (150.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 366.0 N @ 150 km/h (82.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 1,080.0 N @ 150 km/h (242.8 lbf @ 150 km/h) |
| Wind Speed, maximum | 200 km/h (124 mph) |

Packaging and Weights

RVV-65D-R3VB

| | |
|-----------------------|---------------------|
| Width, packed | 492 mm 19.37 in |
| Depth, packed | 277 mm 10.906 in |
| Length, packed | 2747 mm 108.15 in |
| Weight, gross | 41.5 kg 91.492 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-B95-03 – 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-B95-03



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 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 4.5 kg | 9.921 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 2

Regulatory Compliance/Certifications

Agency

CE
ISO 9001:2015

Classification

Compliant with the relevant CE product directives
Designed, manufactured and/or distributed under this quality management system

