

VV-65A-R2



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 2x RET with manual override and tilt scales.

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

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| Antenna Type | Sector |
| Band | Single band |
| 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 |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, total | 4 |

Remote Electrical Tilt (RET) Information

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|--|-----------------------------------|
| 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 (2) |
| Power Consumption, idle state, maximum | 1 W |
| Power Consumption, normal conditions, maximum | 10 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

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|---|---------------------|
| Width | 300 mm 11.811 in |
| Depth | 115 mm 4.528 in |
| Length | 1400 mm 55.118 in |
| Net Weight, without mounting kit | 14 kg 30.865 lb |

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Port Configuration



Electrical Specifications

| | |
|---------------------------------|-----------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1695 – 2690 MHz |

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|-----------------------------------|---------------|
| Polarization | ±45° |
| Total Input Power, maximum | 450 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 1695–1880 | 1850–1990 | 1920–2180 | 2300–2500 | 2500–2690 |
|---|------------|------------|------------|------------|------------|
| Gain, dBi | 17.5 | 17.7 | 17.8 | 17.9 | 17.7 |
| Beamwidth, Horizontal, degrees | 66 | 66 | 68 | 68 | 67 |
| Beamwidth, Vertical, degrees | 6.7 | 6.3 | 5.9 | 5.2 | 4.9 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–10 | 0–10 | 0–10 |
| USLS (First Lobe), dB | 17 | 18 | 19 | 20 | 20 |
| Front-to-Back Ratio at 180°, dB | 33 | 35 | 36 | 32 | 32 |
| Isolation, Cross Polarization, dB | 28 | 28 | 28 | 28 | 28 |
| Isolation, Inter-band, 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 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 300 | 250 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 1695–1880 | 1850–1990 | 1920–2180 | 2300–2500 | 2500–2690 |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Gain by all Beam Tilts, average, dBi | 17.1 | 17.4 | 17.6 | 17.6 | 17.5 |
| Gain by all Beam Tilts Tolerance, dB | ±0.5 | ±0.4 | ±0.3 | ±0.4 | ±0.3 |
| Gain by Beam Tilt, average, dBi | 0° 16.8 5° 17.1 10° 17.1 | 0° 17.1 5° 17.4 10° 17.5 | 0° 17.3 5° 17.6 10° 17.6 | 0° 17.4 5° 17.7 10° 17.6 | 0° 17.3 5° 17.6 10° 17.4 |
| Beamwidth, Horizontal Tolerance, degrees | ±3.7 | ±3 | ±3.2 | ±3.7 | ±5.6 |
| Beamwidth, Vertical Tolerance, degrees | ±0.4 | ±0.2 | ±0.4 | ±0.2 | ±0.2 |
| USLS, beampeak to 20° above beampeak, dB | 16 | 17 | 16 | 16 | 16 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25 | 25 | 27 | 26 | 23 |
| CPR at Boresight, dB | 16 | 16 | 17 | 19 | 22 |

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|--------------------------|----|----|----|---|----|
| CPR at Sector, dB | 11 | 10 | 12 | 9 | 11 |
|--------------------------|----|----|----|---|----|

Mechanical Specifications

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|---|---|
| Mechanical Tilt Range | 0°–18° |
| Wind Loading @ Velocity, frontal | 510.0 N @ 150 km/h (114.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 131.0 N @ 150 km/h (29.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 608.0 N @ 150 km/h (136.7 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

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|-----------------------|---------------------|
| Width, packed | 445 mm 17.52 in |
| Depth, packed | 240 mm 9.449 in |
| Length, packed | 1520 mm 59.843 in |
| Weight, gross | 22.9 kg 50.486 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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.

* Footnotes

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| Performance Note | Severe environmental conditions may degrade optimum performance |
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