

12-port sector/multibeam antenna, 4x 694–960 MHz 65° HPBW and 8x 1695–2400 MHz 4x 33°HPBW, 6x RET with tilt indicators

- 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
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

RR2VV-6533D-R6 12-port sector/multibeam antenna, 4x 698-960 MHz 65° HPBW and 8x 1710-2690 MHz 4x 33°

HPBW, 6x RET

General Specifications

Antenna Type Multibeam

Band Multiband

Grounding TypeRF 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

Radiator Material Copper | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8

RF Connector Quantity, mid band 0

RF Connector Quantity, low band

RF Connector Quantity, total 12

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

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RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 54 kg | 119.049 lb

Array Layout



| Array | Freq(MHz) | Conns | RET (SRET) | AISG RET UID |
|-------|-------------|-------|---------------|---------------------|
| R1 | 694-960 | 1-2 | 1 | CPXXXXXXXXXXXXXXXXI |
| R2 | 694-960 | 3-4 | 2 | CPXXXXXXXXXXXXXXXX |
| Y1 | 1695 – 2400 | 5-6 | 3 | CPXXXXXXXXXXXXXXXY1 |
| Y2 | 1695 – 2400 | 7-8 | 4 | CPXXXXXXXXXXXXXXY2 |
| Y3 | 1695 – 2400 | 9-10 | 5 | СРХХХХХХХХХХХХХХХХ |
| Y4 | 1695 – 2400 | 11-12 | 6 | CPXXXXXXXXXXXXXXXY4 |

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 700 W @ 50 °C

Electrical Specifications

| Frequency Band, MHz | 698-806 | 806-896 | 880-960 | 1695-1880 | 1850-1990 | 1920-2180 | 2300-2400 |
|------------------------------------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Gain, dBi | 15.7 | 16 | 16.4 | 17.9 | 18.7 | 19.3 | 19.2 |
| Beam Centers, Horizontal, degrees | | | | ±27 | ±27 | ±27 | ±27 |
| Beamwidth, Horizontal, degrees | 67 | 64 | 61 | 32 | 31 | 30 | 30 |
| Beamwidth, Vertical, degrees | 8.8 | 7.8 | 7.4 | 7.3 | 6.9 | 6.5 | 5.7 |
| Beam Tilt, degrees | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 18 | 19 | 19 | 17 | 17 | 18 | 22 |
| Front-to-Back Ratio at 180°, dB | 32 | 31 | 31 | 35 | 35 | 36 | 34 |
| Isolation, Cross Polarization, dB | 28 | 28 | 28 | 25 | 25 | 25 | 25 |

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| Isolation, Inter-band, dB | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
|--|------------|------------|------------|------------|------------|------------|------------|
| Isolation, Beam to Beam, dB | | | | 17 | 17 | 17 | 17 |
| 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 | 150 | 150 | 150 | 150 |

Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 75 kg | 165.347 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-4 – 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-M4 – 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-4



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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 kg | 14.33 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 |
| | |



BSAMNT-M4



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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net4.6 kg | 10.141 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



