

20-port sector/multibeam antenna 4x 694–960 MHz , 8x 1695-2690 MHz 65° HPBW and 8x 1710–2690 MHz 2x 2-Beam 33°HPBW, 10x RET. Band cascaded SRET

General Specifications

Antenna Type Multibeam

Band Multiband

Color Light Gray (RAL 7035)

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 EN1991-1-4 standard

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, low band

4

RF Connector Quantity, total

20

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (8) | Low band (2)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 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

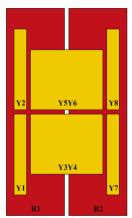
Page 1 of 6



Net Weight, antenna only

58.6 kg | 129.191 lb

Array Layout



| Array ID | Frequency (MHz) | RF Connector | HPBW | RET (SRET) | AISG No. | AISG RET UID |
|----------|--------------------|--------------|------|---------------|----------|-------------------|
| R1 | 694-960 | 1 - 2 | 65° | 1 | AISG1 | CPxxxxxxxxxxxxxR1 |
| R2 | 694-960 | 3 - 4 | 65° | 2 | AISG1 | CPxxxxxxxxxxxxxR2 |
| Y1 | 1695-2690 | 5 - 6 | 65° | 3 | AISG1 | CPxxxxxxxxxxxxxY1 |
| Y2 | 1695-2690 | 7 - 8 | 65° | 4 | AISG1 | CPxxxxxxxxxxxxxY2 |
| Y3 | 1710-2690 | 9 - 10 | 33° | 5 | AISG1 | CPxxxxxxxxxxxxxY3 |
| Y4 | 1710-2690 | 11 - 12 | 33° | 6 | AISG1 | CPxxxxxxxxxxxx4 |
| Y5 | 1710-2690 | 13 - 14 | 33° | 7 | AISG1 | CPxxxxxxxxxxxxxY5 |
| Y6 | 1710-2690 | 15 - 16 | 33° | 8 | AISG1 | CPxxxxxxxxxxxxY6 |
| Y7 | 1695-2690 | 17 - 18 | 65° | 9 | AISG1 | CPxxxxxxxxxxxxxY7 |
| Y8 | 1695-2690 | 19 - 20 | 65° | 10 | AISG1 | CPxxxxxxxxxxxxXY8 |

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 1710 – 2690 MHz | 694 – 960 MHz

COMMSCOPE®

Polarization ±45°

Total Input Power, maximum 1,300 W @ 50 °C

Electrical Specifications

| Frequency Band, MHz | 694-790 | 790-890 | 880-960 | 1695-192 | 01920-218 | 02300-269 | 01710-192 | 01920-218 | 02300-2690 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Gain, dBi | 15.6 | 15.9 | 15.9 | 15.7 | 16.9 | 17.7 | 17.5 | 19 | 19.4 |
| Beam Centers, Horizontal, degrees | | | | | | | ±27 | ±27 | ±27 |
| Beamwidth, Horizontal, degrees | 71 | 65 | 63 | 76 | 67 | 59 | 37 | 34 | 28 |
| Beamwidth, Vertical, degrees | 9.3 | 8.3 | 7.6 | 7.1 | 6.4 | 5.4 | 7.2 | 6.5 | 5.5 |
| Beam Tilt, degrees | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 17 | 17 | 16 | 16 | 16 | 19 | 16 | 18 | 20 |
| Front-to-Back Ratio at 180°, dB | 30 | 28 | 30 | 32 | 30 | 33 | 39 | 38 | 35 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Beam to Beam, dB | | | | | | | 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 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port at 50° C, maximum, watts | 250 | 250 | 250 | 200 | 200 | 150 | 200 | 200 | 150 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 694-790 | 790-890 | 880-960 | 1695-192 | 01920-218 | 02300-269 | 01710-192 | 01920-218 | 02300-2690 |
|---|---------|---------|---------|----------|-----------|-----------|-----------|-----------|------------|
| Gain by all Beam Tilts, average, dBi | 15.1 | 15.6 | 15.7 | 15.2 | 16.3 | 17.3 | 17 | 18.4 | 18.8 |
| Gain by all Beam Tilts Tolerance, dB | ±0.6 | ±0.4 | ±0.4 | ±0.8 | ±0.7 | ±0.4 | ±1.1 | ±0.9 | ±1 |
| Beamwidth, Horizontal Tolerance, degrees | ±7.9 | ±9.2 | ±5.4 | ±6.7 | ±7 | ±4.5 | ±3.4 | ±2.3 | ±3.6 |
| Beamwidth, Vertical Tolerance, degrees | ±0.5 | ±0.5 | ±0.3 | ±0.5 | ±0.4 | ±0.4 | ±0.5 | ±0.4 | ±0.5 |
| USLS, beampeak to 20° above beampeak, dB | 17 | 16 | 15 | 14 | 16 | 14 | 15 | 15 | 13 |
| Front-to-Back Total Power | 22 | 22 | 23 | 23 | 23 | 25 | 31 | 31 | 28 |

Page 3 of 6



| at 180° ± 30°, dB | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|
| CPR at Boresight, dB | 23 | 22 | 18 | 19 | 22 | 23 | 16 | 20 | 20 |
| CPR at Sector, dB | 12 | 9 | 13 | 8 | 6 | 8 | | | |
| CPR at 10 dB Horizontal Beamwidth, dB | | | | | | | 6 | 11 | 12 |

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 650.0 N @ 150 km/h (146.1 lbf @ 150 km/h)

Wind Speed, maximum 241 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
 80.4 kg | 177.251 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

Page 4 of 6



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

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

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



COMMSCOPE®