

4-port sector antenna, 2x 698–960 and 2x 1710–2180 MHz, 85° HPBW, RET compatible

- Patented dipole technology
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

OBSOLETE

This product was discontinued on: March 31, 2022

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracket

Performance NoteOutdoor usage | Wind loading figures are validated by wind tunnel measurements

described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator Material Brass | Low loss circuit board

RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 2
RF Connector Quantity, low band 2
RF Connector Quantity, total 4

Dimensions

 Width
 301 mm | 11.85 in

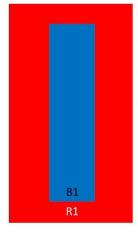
 Depth
 181 mm | 7.126 in

 Length
 2449 mm | 96.417 in

 Net Weight, without mounting kit
 21.9 kg | 48.281 lb

Array Layout





| Array | Freq (MHz) | Conns |
|-------|------------|-------|
| R1 | 698-960 | 1-2 |
| B1 | 1710-2180 | 3-4 |

Bottom

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2180 MHz | 698 – 960 MHz

Polarization ±45°

Electrical Specifications

| Frequency Band, MHz | 698-806 | 806-896 | 870-960 | 1710-1880 | 1850-1990 | 1920-2180 |
|------------------------------------|------------|------------|------------|------------|------------|------------|
| Gain, dBi | 15.1 | 15 | 16.2 | 17 | 16.7 | 17.1 |
| Beamwidth, Horizontal, degrees | 89 | 83 | 84 | 79 | 82 | 85 |
| Beamwidth, Vertical, degrees | 8.5 | 7.6 | 7.3 | 4.7 | 4.4 | 4.2 |
| Beam Tilt, degrees | 0-11 | 0-11 | 0-11 | 0-6 | 0-6 | 0-6 |
| USLS (First Lobe), dB | 15 | 15 | 15 | 16 | 17 | 17 |
| Front-to-Back Ratio at 180°, dB | 30 | 28 | 28 | 29 | 29 | 29 |
| CPR at Boresight, dB | 25 | 22 | 21 | 20 | 20 | 20 |
| CPR at Sector, dB | 13 | 11 | 10 | 9 | 9 | 10 |
| Isolation, Cross Polarization, dB | 30 | 30 | 30 | 30 | 30 | 30 |
| Isolation, Inter-band, dB | 30 | 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 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 |

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| Input Power per Port, | 400 | 400 | 400 | 300 | 300 | 300 |
|-----------------------|-----|-----|-----|-----|-----|-----|
| maximum, watts | | | | | | |

Electrical Specifications, BASTA

| Frequency Band, MHz | 698-806 | 806-896 | 870-960 | 1710-1880 | 1850-1990 | 1920-2180 |
|---|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Gain by all Beam Tilts, average, dBi | 14.6 | 15.2 | 15.7 | 16.4 | 16.6 | 16.8 |
| Gain by all Beam Tilts Tolerance, dB | ±0.5 | ±0.9 | ±0.5 | ±0.3 | ±0.3 | ±0.3 |
| Gain by Beam Tilt, average, dBi | 0° 14.7 5° 14.6 11° 14.2 | 0° 15.2 5° 15.1 11° 14.9 | 0° 15.7 5° 15.7 11° 15.2 | 0° 16.3 3° 16.4 6° 16.4 | 0° 16.5 3° 16.7 6° 16.5 | 0° 16.7 3° 16.8 6° 16.6 |
| Beamwidth, Horizontal Tolerance, degrees | ±6.3 | ±3.1 | ±2.8 | ±5 | ±4.5 | ±4.4 |
| Beamwidth, Vertical Tolerance, degrees | ±0.6 | ±0.4 | ±0.4 | ±0.2 | ±0.2 | ±0.3 |
| USLS, beampeak to 20° above beampeak, dB | 15 | 15 | 15 | 17 | 18 | 18 |
| Front-to-Back Total Power at 180° ± 30°, dB | 16 | 19 | 20 | 23 | 23 | 22 |
| CPR at Boresight, dB | 25 | 22 | 22 | 20 | 18 | 17 |
| CPR at Sector, dB | 13 | 11 | 10 | 8 | 10 | 10 |

Mechanical Specifications

| Wind Loading @ Velocity, frontal | 396.0 N @ 150 km/h (89.0 lbf @ 150 km/h) |
|----------------------------------|---|
| Wind Loading @ Velocity, lateral | 333.0 N @ 150 km/h (74.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 762.0 N @ 150 km/h (171.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 401.0 N @ 150 km/h (90.1 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

 Width, packed
 410 mm | 16.142 in

 Depth, packed
 295 mm | 11.614 in

 Length, packed
 2765 mm | 108.858 in

 Weight, gross
 35.7 kg | 78.705 lb

Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

COMMSCOPE®

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-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