SBNHH-1D85C



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 3x RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Three internal RETs for independent tilt on all three bands

OBSOLETE

This product was discontinued on: March 30, 2024

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 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 Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 7-16 DIN Female

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

RF Connector Quantity, low band

2

RF Connector Quantity, total

6

Remote Electrical Tilt (RET) Information

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) | Low band (1)

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Power Consumption, idle state, maximum 2 W

Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

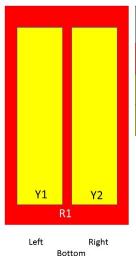
 Width
 301 mm | 11.85 in

 Depth
 180 mm | 7.087 in

 Length
 2438 mm | 95.984 in

Net Weight, without mounting kit 22.5 kg | 49.604 lb

Array Layout



| Array | Freq (MHz) | Conns | RET (MRET) | AISG RET UID |
|-------|------------|-------|---------------|--|
| R1 | 698-896 | 1-2 | 1 | ARxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| Y1 | 1695-2360 | 3-4 | 2 | ARxxxxxxxxxxxxxxxxxxxxxxxxx |
| Y2 | 1695-2360 | 5-6 | 3 | ARxxxxxxxxxxxxxxxxx |

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Electrical Specifications

| Frequency Band, MHz | 698-806 | 806-896 | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2360 |
|--------------------------------|---------|---------|-----------|-----------|-----------|-----------|
| Gain, dBi | 15.6 | 15.6 | 17 | 17.6 | 17.9 | 17.8 |
| Beamwidth, Horizontal, degrees | 81.5 | 83 | 81.5 | 79 | 79 | 79.7 |
| Beamwidth, Vertical, degrees | 8.9 | 8.1 | 5.6 | 5.2 | 5 | 4.6 |

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| Beam Tilt, degrees | 0-10 | 0-10 | 0-8 | 0-8 | 0-8 | 0-8 |
|--|------------|------------|------------|------------|------------|------------|
| USLS (First Lobe), dB | 16 | 17 | 14 | 14 | 14 | 15 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 30 | 30 | 25 | 25 | 25 | 25 |
| 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 | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 300 | 300 | 250 |

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.37 \text{ m}^2 \mid 3.983 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.31 \text{ m}^2 \mid 3.337 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 330.0 N @ 150 km/h (74.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 757.0 N @ 150 km/h (170.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 409 mm | 16.102 in

 Depth, packed
 299 mm | 11.772 in

 Length, packed
 2561 mm | 100.827 in

 Weight, gross
 32.6 kg | 71.871 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

Product Classification

Product Type Fixed tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 4 kg | 8.818 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| 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 |
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