

SBNHH-1D65C-SR



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

OBSOLETE

This product was discontinued on: March 31, 2022

Replaced By:

NHH-65C-R2B

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| Band | Multiband |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF 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 | Bottom |
| RF Connector Quantity, high band | 4 |
| 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 (1) Low band (1) |

SBNHH-1D65C-SR

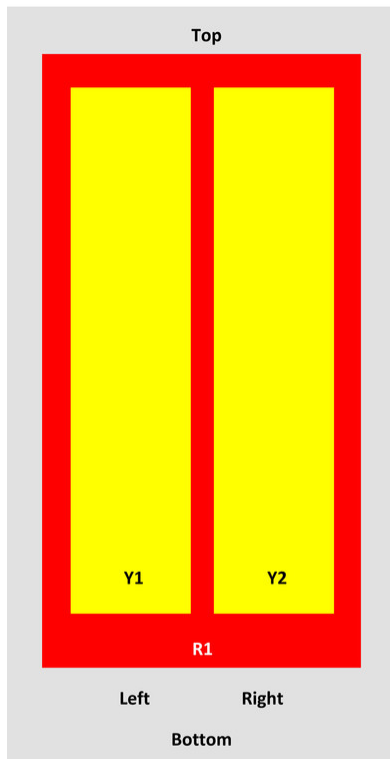
| | |
|--|----------------------------|
| Power Consumption, idle state, maximum | 2 W |
| Power Consumption, normal conditions, maximum | 13 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

| | |
|---|---------------------|
| Width | 301 mm 11.85 in |
| Depth | 180 mm 7.087 in |
| Length | 2453 mm 96.575 in |
| Net Weight, without mounting kit | 22.5 kg 49.604 lb |

Array Layout

SBNHH... SR



| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|-------|------------|-------|------------|----------------------|
| R1 | 698-496 | 1-2 | 1 | A\XXXXXXXXXXXXXXXXX1 |
| Y1 | 1695-2360 | 3-4 | 2 | A\XXXXXXXXXXXXXXXXX2 |
| Y2 | 1695-2360 | 5-6 | | |

View from the front of the antenna

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

Electrical Specifications

SBNHH-1D65C-SR

| | |
|---------------------------------|---------------------------------|
| 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 | 16.2 | 16 | 17.7 | 17.9 | 18.5 | 18.5 |
| Beamwidth, Horizontal, degrees | 66.2 | 63.8 | 70 | 64.5 | 63 | 58 |
| Beamwidth, Vertical, degrees | 8.9 | 7.8 | 5.7 | 5.2 | 5 | 4.4 |
| Beam Tilt, degrees | 0–11 | 0–11 | 0–7 | 0–7 | 0–7 | 0–7 |
| USLS (First Lobe), dB | 11 | 12 | 15 | 15 | 15 | 14 |
| Front-to-Back Ratio at 180°, dB | 29 | 31 | 27 | 27 | 28 | 27 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 |
| 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 | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port, maximum, watts | 400 | 400 | 350 | 350 | 350 | 300 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 698–806 | 806–896 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2360 |
|--|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Gain by all Beam Tilts, average, dBi | 15.8 | 15.6 | 17.3 | 17.8 | 18.2 | 18.1 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.5 | ±0.3 | ±0.2 | ±0.5 | ±0.4 |
| Gain by Beam Tilt, average, dBi | 0° 16.0 5° 16.0 11° 15.5 | 0° 15.8 5° 15.8 11° 15.2 | 0° 17.3 4° 17.4 7° 17.3 | 0° 17.7 4° 17.8 7° 17.7 | 0° 18.0 4° 18.2 7° 18.1 | 0° 17.9 4° 18.2 7° 18.2 |
| Beamwidth, Horizontal Tolerance, degrees | ±1.2 | ±1.9 | ±3.4 | ±3.8 | ±4.7 | ±3.7 |
| Beamwidth, Vertical Tolerance, degrees | ±0.6 | ±0.5 | ±0.3 | ±0.2 | ±0.3 | ±0.2 |
| USLS, beampeak to 20° above beampeak, dB | 13 | 14 | 17 | 16 | 17 | 15 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25.6 | 23.8 | 27 | 24.6 | 25 | 26 |

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| | | | | | | |
|-----------------------------|----|----|----|----|----|----|
| CPR at Boresight, dB | 29 | 22 | 20 | 21 | 19 | 21 |
| CPR at Sector, dB | 14 | 11 | 13 | 11 | 9 | 5 |

Mechanical Specifications

| | |
|---|---|
| Effective Projective Area (EPA), frontal | 0.37 m ² 3.983 ft ² |
| Effective Projective Area (EPA), lateral | 0.31 m ² 3.337 ft ² |
| 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 | 390 mm 15.354 in |
| Depth, packed | 296 mm 11.654 in |
| Length, packed | 2628 mm 103.465 in |
| Weight, gross | 35.2 kg 77.603 lb |

Regulatory Compliance/Certifications

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



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 |
|-------------------------|---|

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 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 |

BSAMNT-3

