

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

This product will be discontinued on: March 31, 2022

Replaced By:

NHH-65B-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 TypeSectorBandMultibandColorLight gray

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

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Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (1)

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

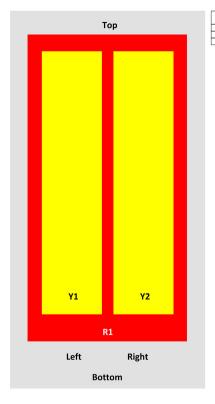
Depth 181 mm | 7.126 in

Length 1851 mm | 72.874 in

Net Weight, without mounting kit 18.4 kg | 40.565 lb

Array Layout

SBNHH.... SR



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxx		
Yl	1695-2360	3-4	2	ANxxxxxxxxxxxxxxxxxxxx		
V2	1695-2360	5-6	1			

View from the front of the antenna (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	14.9	14.7	17.7	18.2	18.6	18.6
Beamwidth, Horizontal, degrees	68	65.5	69	66.2	63	58
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5	4.5
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	14	13	15	15	15	13
Front-to-Back Ratio at 180°, dB	27	29	28	28	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	350	350	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	14.5	14.3	17.4	17.9	18.2	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.8	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 14.6 7° 14.6 14° 14.2	0° 14.5 7° 14.4 14° 13.6	0° 17.4 3° 17.5 7° 17.4	0° 17.8 3° 17.9 7° 17.9	0° 18.1 3° 18.3 7° 18.2	0 ° 18.2 3 ° 18.4 7 ° 18.4
Beamwidth, Horizontal Tolerance, degrees	±2.2	±3.4	±2	±4.6	±5.7	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±1	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	14	16	16	16	15

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Front-to-Back Total Power at 180° ± 30°, dB	24.5	25.6	27	26	26	25.6
CPR at Boresight, dB	22	23	21	20	20	22
CPR at Sector, dB	13	11	16	12	11	4

Mechanical Specifications

 Effective Projective Area (EPA), frontal
 0.22 m² | 2.368 ft² | 0.27 m² | 2.906 ft²

 Wind Loading @ Velocity, frontal
 283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 545.0 N @ 150 km/h (122.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h | 149.75 mph

Packaging and Weights

 Width, packed
 390 mm | 15.354 in

 Depth, packed
 296 mm | 11.654 in

 Length, packed
 2025 mm | 79.724 in

 Weight, gross
 31 kg | 68.343 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 NoteSevere environmental conditions may degrade optimum performance

