



SBNHH-1D65B

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

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	66	69	66	63	58
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5.0	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, dB	25	25	25	25	25	25
Isolation, Intersystem, 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
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm					

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
	0 ° 14.6	0 ° 14.5	0 ° 17.4	0 ° 17.8	0 ° 18.1	0 ° 18.2
Gain by Beam Tilt, average, dBi	7° 14.6	7 ° 14.4	3 ° 17.5	3 ° 17.9	3 ° 18.3	3 ° 18.4
	14 ° 14.2	14 ° 13.6	7 ° 17.4	7 ° 17.9	7 ° 18.2	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
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26	26	26
CPR at Boresight, dB	22	23	21	20	20	22
CPR at Sector, dB	13	11	16	12	11	4

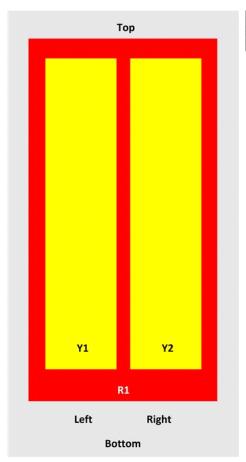
^{*} CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

Array Layout



SBNHH-1D65B

SBNHH 65



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID		
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
YI	1695-2360	3-4	2	ANxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
Y2	1695-2360	5-6		100 pt 1 100 100 100 100 100 100 100 100 100		

View from the front of the antenna

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

General Specifications

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

Antenna Type Sector
Band Multiband
Performance Note Outdoor usage

Mechanical Specifications

RF Connector Quantity, total 6
RF Connector Quantity, low band 2
RF Connector Quantity, high band 4

RF Connector Interface 7-16 DIN Female



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Color Light gray

Grounding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

Radiator Material Aluminum | Low loss circuit board

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum
RF Connector Location Bottom

Wind Loading, frontal 618.0 N @ 150 km/h 138.9 lbf @ 150 km/h

Wind Loading, lateral 197.0 N @ 150 km/h 44.3 lbf @ 150 km/h

Wind Loading, rear 728.0 N @ 150 km/h 163.7 lbf @ 150 km/h Wind Speed, maximum 241 km/h | 150 mph

Dimensions

 Length
 1851.0 mm | 72.9 in

 Width
 301.0 mm | 11.9 in

 Depth
 180.0 mm | 7.1 in

 Net Weight, without mounting kit
 18.4 kg | 40.6 lb

Remote Electrical Tilt (RET) Information

Input Voltage 10–30 Vdc

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

Power Consumption, idle state, maximum 2.0 W Power Consumption, normal conditions, maximum 13.0 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

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

RET Interface, quantity 1 female | 1 male

Packed Dimensions

 Length
 2025.0 mm | 79.7 in

 Width
 390.0 mm | 15.4 in

 Depth
 296.0 mm | 11.7 in

 Shipping Weight
 31.0 kg | 68.3 lb

Regulatory Compliance/Certifications

Agency

Classification

RoHS 2011/65/EU

Compliant by Exemption

China RoHS SJ/T 11364-2006

Above Maximum Concentration Value (MCV)

ISO 9001:2008

Designed, manufactured and/or distributed under this quality management system







SBNHH-1D65B

Included Products

BSAMNT-1 — 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