

# SBNHH-1D85B



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
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

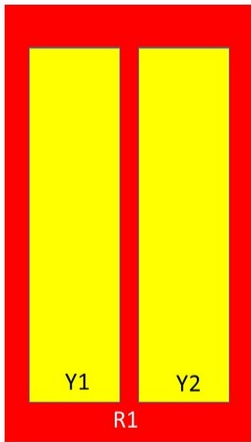
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (2)   Low band (1)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Multi-RET)

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## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	180 mm   7.087 in
<b>Length</b>	1851 mm   72.874 in
<b>Net Weight, without mounting kit</b>	19.1 kg   42.108 lb

## Array Layout



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

Left Right  
Bottom

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2360 MHz   698 – 896 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
<b>Gain, dBi</b>	14.5	14.4	17	17.6	17.9	17.9
<b>Beamwidth, Horizontal, degrees</b>	82.5	86.1	81	79.3	79	79
<b>Beamwidth, Vertical, degrees</b>	12.3	11.1	5.7	5.3	5	4.6
<b>Beam Tilt, degrees</b>	0–12	0–12	0–8	0–8	0–8	0–8
<b>USLS (First Lobe), dB</b>	19	18	15	16	17	18
<b>Isolation, Cross Polarization,</b>	25	25	25	25	25	25

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dB

<b>Isolation, Inter-band, dB</b>	30	30	25	25	25	25
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	300	300	250

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.3	14.2	16.8	17.4	17.7	17.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.5	±0.5	±0.3	±0.4	±0.3
<b>Gain by Beam Tilt, average, dBi</b>	0° 14.2 6° 14.3 12° 14.1	0° 14.1 6° 14.3 12° 13.9	0° 16.8 4° 16.8 8° 16.7	0° 17.5 4° 17.5 8° 17.2	0° 17.7 4° 17.8 8° 17.5	0° 17.6 4° 18.0 8° 17.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2.4	±1.7	±4.8	±3.2	±3.8	±1.9
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.6	±0.9	±0.2	±0.2	±0.3	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	16	14	15	16	17	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	22.5	23	27	26	25	27
<b>CPR at Boresight, dB</b>	20	20	23	22	18	22
<b>CPR at Sector, dB</b>	15	16	12	13	10	6

## Mechanical Specifications

<b>Effective Projective Area (EPA), frontal</b>	0.27 m <sup>2</sup>   2.906 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.22 m <sup>2</sup>   2.368 ft <sup>2</sup>
<b>Wind Loading @ Velocity, frontal</b>	283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	545.0 N @ 150 km/h (122.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	380 mm   14.961 in
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<b>Depth, packed</b>	295 mm   11.614 in
<b>Length, packed</b>	1973 mm   77.677 in
<b>Weight, gross</b>	28 kg   61.729 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

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

<b>Performance Note</b>	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

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 3.8 kg | 8.378 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-2F

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