

# SBNH-1D65C-SR



4-port sector antenna, 2x 698-896 and 2x 1710-2360 MHz, 65° HPBW, 2x RET

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

**OBSOLETE**

This product was discontinued on: **March 30, 2022**

## 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
<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>	2
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	4

## 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 (1)   Low band (1)

# SBNH-1D65C-SR

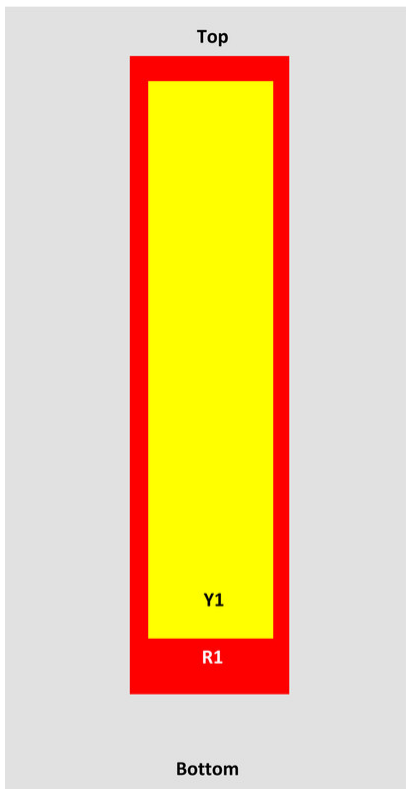
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	181 mm   7.126 in
<b>Length</b>	2451 mm   96.496 in
<b>Net Weight, without mounting kit</b>	22.5 kg   49.604 lb

## Array Layout

SBNH...-SR



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXX1
Y1	1710-2360	3-4	2	ANXXXXXXXXXXXXX2

View from the front of the antenna

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

## Electrical Specifications

# SBNH-1D65C-SR

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2360 MHz   698 – 896 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain, dBi</b>	16.1	15.6	17.6	17.8	18.3	18.3
<b>Beamwidth, Horizontal, degrees</b>	66.2	64	70.8	64.6	63	58
<b>Beamwidth, Vertical, degrees</b>	8.8	7.8	5.7	5.2	5	4.4
<b>Beam Tilt, degrees</b>	0–11	0–11	0–7	0–7	0–7	0–7
<b>USLS (First Lobe), dB</b>	13	12	16	15	17	18
<b>Front-to-Back Ratio at 180°, dB</b>	30	34	32	29	28	31
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30
<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, maximum, watts</b>	400	400	350	350	350	300

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	395.0 N @ 150 km/h (88.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	332.0 N @ 150 km/h (74.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	761.0 N @ 150 km/h (171.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	400.0 N @ 150 km/h (89.9 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	409 mm   16.102 in
<b>Depth, packed</b>	299 mm   11.772 in
<b>Length, packed</b>	2572 mm   101.26 in
<b>Weight, gross</b>	35.2 kg   77.603 lb

## Regulatory Compliance/Certifications

# SBNH-1D65C-SR

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## Agency

CHINA-ROHS  
ISO 9001:2015  
REACH-SVHC  
ROHS  
UK-ROHS

## Classification

Below maximum concentration value  
Designed, manufactured and/or distributed under this quality management system  
Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)  
Compliant  
Compliant



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

# BSAMNT-3

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