

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

This product will be discontinued on: March 30, 2022

### General Specifications

Antenna TypeSectorBandMultibandColorLight gray

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

mounting bracket

Performance Note Outdoor usage

**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 2
RF Connector Quantity, low band 2
RF Connector Quantity, total 4

### 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)

Power Consumption, idle state, maximum 2 W

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Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

 Width
 301 mm | 11.85 in

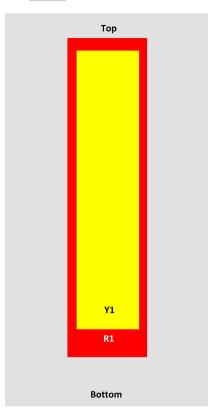
 Depth
 181 mm | 7.126 in

 Length
 2451 mm | 96.496 in

 Net Weight, without mounting kit
 22.5 kg | 49.604 lb

### Array Layout

#### SBNH....-SR



ray	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
₹1	698-896	1-2	1	ANxxxxxxxxxxxxxxx1
71	1710 2260	2.4	2	A Nisawayayayayayayayaya

View from the front of the antenna

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

### **Electrical Specifications**

**Impedance** 50 ohm

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Operating Frequency Band

1710 - 2360 MHz | 698 - 896 MHz

**Polarization** 

±45°

## **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	16.1	15.6	17.6	17.8	18.3	18.3
Beamwidth, Horizontal, degrees	66.2	64	70.8	64.6	63	58
Beamwidth, Vertical, degrees	8.8	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	13	12	16	15	17	18
Front-to-Back Ratio at 180°, dB	30	34	32	29	28	31
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

Electrical Specifications, BNSTN								
Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2200	2300-2360		
Gain by all Beam Tilts, average, dBi	15.8	15.3	17.3	17.7	18	18.1		
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.7	±0.4	±0.3	±0.5	±0.3		
Gain by Beam Tilt, average, dBi	0° 15.7 5° 15.9 11° 15.6	0° 15.3 5° 15.4 11° 15.0	0° 17.3 4° 17.3 7° 17.2	0° 17.6 4° 17.8 7° 17.6	0 °   17.9 4 °   18.0 7 °   18.0	0° 18.0 4° 18.2 7° 18.2		
Beamwidth, Horizontal Tolerance, degrees	±1.2	±2.2	±3.7	±4.3	±3.2	±3.5		
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.3	±0.2	±0.3	±0.2		
USLS, beampeak to 20° above beampeak, dB	13	11	16	15	16	15		
Front-to-Back Total Power at 180° ± 30°, dB	25	23	27	25	25	26		
CPR at Boresight, dB	30	25	18	19	18	22		

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**CPR at Sector, dB** 15 11 15 12 11 5

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 395.0 N @ 150 km/h (88.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 332.0 N @ 150 km/h (74.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 761.0 N @ 150 km/h (171.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 400.0 N @ 150 km/h (89.9 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h | 149.75 mph

### Packaging and Weights

 Width, packed
 409 mm | 16.102 in

 Depth, packed
 299 mm | 11.772 in

 Length, packed
 2572 mm | 101.26 in

 Weight, gross
 35.2 kg | 77.603 lb

### Regulatory Compliance/Certifications

#### Agency Classification

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



#### 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

