

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4000 MHz, 55° HPBW, 2x RETs and 2x SBTs.

- Superior SPR (Sector Power Ratio) for best-in-class data throughput rates
- Excellent pattern overlay across all bands
- Low band and mid band performance mirrors performance of the equivalent hex port antenna
- Internal SBTs on low and mid band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one MB RET. Both mid band arrays are controlled by one RET to ensure same tilt level for best 4x4 MIMO performance
- Utilizes Pattern Shaping Technology to reduce cell overlap and maximize SINR (Signal to Interference and Noise Ratio)
- Use optional BSAMNT-SBS-2-2 for side-by-side mounting of two hex and/or ten port 55° antennas

### General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

**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

**RF Connector Interface** 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 10

### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface, quantity** 2 female | 2 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3

**COMMSCOPE®** 

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

Power Consumption, active state, maximum  $$10\ \mathrm{W}$$ 

Power Consumption, idle state, maximum 2 W

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

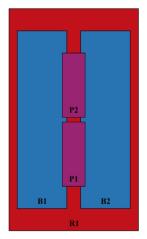
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 1413 mm | 55.63 in

 Net Weight, antenna only
 23.5 kg | 51.809 lb

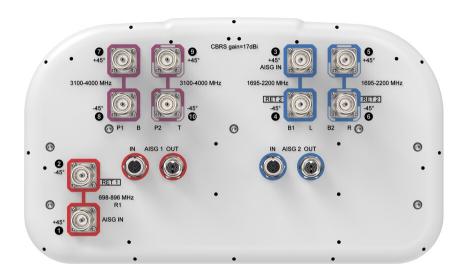
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1		
B1	1695-2200	3 - 4	_	AISG2	CD		
B2	1695-2200	5 - 6	2	AISG2	CPxxxxxxxxxxxxxB1		
P1	3100-4000	7 - 8	NI/A	NIA	NI/A		
P2	3100-4000	9 - 10	N/A	NA	N/A		

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

# Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 3100 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

## **Electrical Specifications**

	R1	R1	B1,B2	B1,B2	B1,B2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	3100-3550	3550-3700	3700-4000
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	7,8,9,10	7,8,9,10	7,8,9,10
Gain, dBi	14.2	14.1	17.1	17.3	17.6	15.9	16.7	16.9
Beamwidth, Horizontal,	58	54	56	58	58	64	55	45

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degrees								
Beamwidth, Vertical, degrees	15.8	14.2	7	6.7	6.4	7.5	7	6.3
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10	4	4	4
USLS (First Lobe), dB	15	15	15	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	27	27	29	29	29	27	29	28
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
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	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	100	100	100

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-188	0 1850-199	0 1920–220	0 3100-355	0 3550-370	0 3700-4000
Gain by all Beam Tilts, average, dBi	13.9	13.6	16.6	17.1	17.2	15.3	16.3	16.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.7	±0.3	±0.4	±1	±0.5	±1
Beamwidth, Horizontal Tolerance, degrees	±3	±3	±4	±4	±5	±11	±8	±11
Beamwidth, Vertical Tolerance, degrees	±1.3	±1	±0.3	±0.3	±0.4	±0.5	±0.4	±0.5
Front-to-Back Total Power at 180° ± 30°, dB	23	23	23	24	24	21	22	22
CPR at Boresight, dB	21	17	18	20	22	14	13	11

## Mechanical Specifications

 Wind Loading @ Velocity, frontal
 203.0 N @ 150 km/h (45.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 180.0 N @ 150 km/h (40.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 232.0 N @ 150 km/h (52.2 lbf @ 150 km/h)

 Wind Speed, maximum
 241 km/h (150 mph)

## Packaging and Weights

 Width, packed
 505 mm | 19.882 in

 Depth, packed
 386 mm | 15.197 in

 Length, packed
 1545 mm | 60.827 in

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**Weight, gross** 35.7 kg | 78.705 lb

### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



### 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

