

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

- Utilizes Pattern Shaping Technology to reduce cell overlap and maximize SINR (Signal to Interference and Noise Ratio)
- 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
- 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	Low loss circuit board
Reflector Material	Aluminum
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

CommRET v2

#### **RET Interface**

4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG\_B), Pin5: RS485B(AISG\_A), Pin6: DC 10~30V, Pin7:

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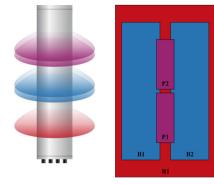
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	DC_ Return
RET Interface, quantity	2 female   2 male
Input Voltage	10-30 Vdc
Internal Bias Tee	Port 1   Port 3
Internal RET	Low band (1)   Mid band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	395 mm   15.551 in
Depth	228 mm   8.976 in

Array Layout

Length



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	415.52	3	2	CDunnananan
B2	1695-2200	5 - 6	2	AISG2	3	2	CPxxxxxxxxxxxxB1
P1	3100-4000	7 - 8					N//A
P2	3100-4000	9 - 10	N/A	NA			N/A

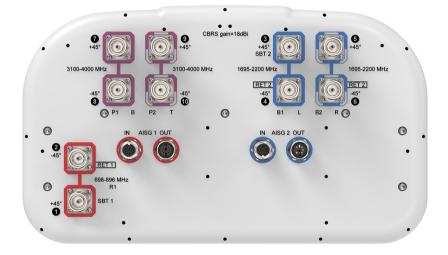
1828 mm | 71.969 in

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

Port Configuration

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#### 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	0 1920-220	0 3100-355	0 3550-370	0 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	15.1	15	18	18.4	18.5	16.4	17.3	17.4
Beamwidth, Horizontal, degrees	58	54	56	55	52	66	53	54
Beamwidth, Vertical, degrees	12.6	10.9	5.7	5.3	5	6	5.4	5.1
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	4	4	4
USLS (First Lobe), dB	16	15	17	17	15	15	17	15
Front-to-Back Ratio at 180°, dB	26	28	29	28	28	26	27	25
Isolation, Cross Polarization,	25	25	25	25	25	25	25	25

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dB								
Isolation, Inter-band, dB	25	25	25	25	25	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	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	14.9	14.8	17.5	18	18.1	15.7	16.9	16.8
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±4	±3	±5	±11	±6	±7
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.5	±0.5	±0.5	±0.6	±0.3	±0.3
Front-to-Back Total Power at 180° ± 30°, dB	24	26	26	25	25	24	23	21
CPR at Boresight, dB	23	18	21	25	24	14	15	14

### Mechanical Specifications

Effective Projective Area (EPA), frontal	0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.23 m²   2.476 ft²
Wind Loading @ Velocity, frontal	272.0 N @ 150 km/h (61.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	244.0 N @ 150 km/h (54.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	547.0 N @ 150 km/h (123.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	311.0 N @ 150 km/h (69.9 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	1960 mm   77.165 in
Weight, gross	42.7 kg   94.137 lb

#### Regulatory Compliance/Certifications

Agency

CHINA-ROHS

Classification

Above maximum concentration value

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ISO 9001:2015

ROHS

UK-ROHS

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

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## 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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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