

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 TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow 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

RET Hardware CommRET v2

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc



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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

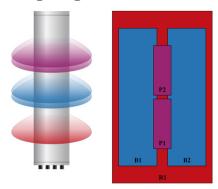
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 35.4 kg | 78.044 lb

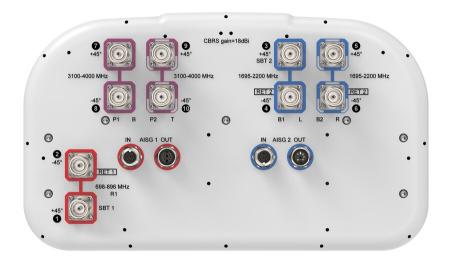
Array Layout



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	NECO	3	2	60		
B2	1695-2200	5 - 6	2	AISG2	3	2	CPxxxxxxxxxxxxxxxxxB1		
P1	3100-4000	7 - 8		NA			N/A		
P2	3100-4000	9 - 10	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	1695-188	0 1850-199	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	16.2	16.1	18	18.2	18.5	17.7	17.6	17.4
Beamwidth, Horizontal, degrees	57	54	56	59	57	56	62	52
Beamwidth, Vertical, degrees	9.3	8.1	5.6	5.2	4.8	5.9	5.3	5.2
Beam Tilt, degrees	0-11	0-11	0-7	0-7	0-7	4	4	4
USLS (First Lobe), dB	15	16	18	19	19	19	21	15
Front-to-Back Ratio at 180°, dB	26	30	31	33	31	29	26	24
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

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.36 \text{ m}^2 \mid 3.875 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.32 \text{ m}^2 \mid 3.444 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 382.0 N @ 150 km/h (85.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 346.0 N @ 150 km/h (77.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 768.0 N @ 150 km/h (172.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 437.0 N @ 150 km/h (98.2 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
 2570 mm | 101.181 in

 Weight, gross
 51 kg | 112.436 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

ANDREW® an Amphenol company

Performance Note

Severe environmental conditions may degrade optimum performance

