

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

- 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 TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

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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

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

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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

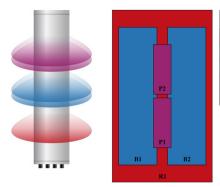
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 1413 mm | 55.63 in

Net Weight, antenna only 23.5 kg | 51.809 lb

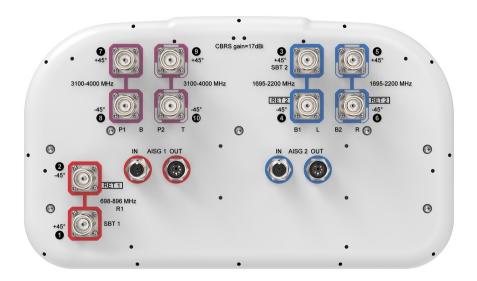
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID		
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxR1		
B1	1695-2200	3 - 4	,	NECO	3	2	60		
B2	1695-2200	5 - 6	2	AISG2	3	2	CPxxxxxxxxxxxxxxxxx		
P1	3100-4000	7 - 8					N/A		
P2	3100-4000	9 - 10	N/A	NA					

(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

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	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	3550-370	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	14.3	14	16.8	17.1	17.4	15.7	16.4	17.3
Beamwidth, Horizontal, degrees	58	54	57	58	57	63	56	45
Beamwidth, Vertical, degrees	16.3	14	7	6.7	6.3	7.7	7.2	6.7
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10	4	4	4
USLS (First Lobe), dB	16	15	17	16	16	15	15	15
Front-to-Back Ratio at 180°, dB	27	30	31	34	34	31	33	29
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	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

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, maximum
 407.0 N @ 150 km/h (91.5 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

 Weight, gross
 36.4 kg | 80.248 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

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 NoteSevere environmental conditions may degrade optimum performance

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