

6-port sector antenna, 2x 698–896, 4x 1695–2200, 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 ten 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 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, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

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

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

Power Consumption, active state, maximum 10 W

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Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

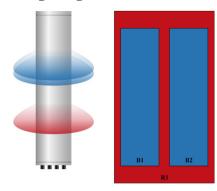
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 1413 mm | 55.63 in

Net Weight, antenna only 20 kg | 44.092 lb

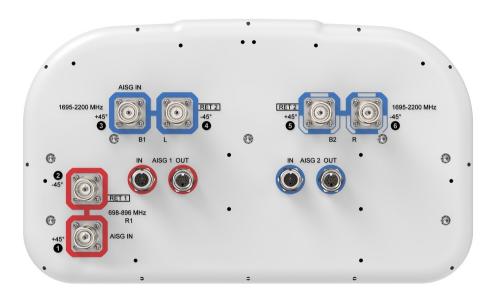
Array Layout



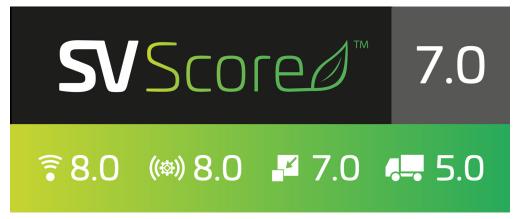
Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1	
B1	1695-2200	3 - 4	_	115.60	CPxxxxxxxxxxxxxxxB1	
B2	1695-2200	5 - 6	2	AISG2		

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

Port Configuration



Logo Image



Electrical Specifications

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Impedance 50 ohm

Operating Frequency Band 1695 – 2200 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
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6
Gain, dBi	14.5	14.7	17.1	17.6	18.1
Beamwidth, Horizontal, degrees	59	54	58	58	55
Beamwidth, Vertical, degrees	16	14.6	7.1	6.8	6.4
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10
USLS (First Lobe), dB	18	16	17	16	16
Front-to-Back Ratio at 180°, dB	31	31	32	32	32
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200
Gain by all Beam Tilts, average, dBi	14.1	14.4	16.8	17.2	17.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±0.4	±0.6
Beamwidth, Horizontal Tolerance, degrees	±3	±2	±3	±2	±6
Beamwidth, Vertical Tolerance, degrees	±1	±0.9	±0.3	±0.3	±0.4
Front-to-Back Total Power at 180° ± 30°, dB	25	27	23	25	25
CPR at Boresight, dB	21	21	17	19	22

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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
 32.9 kg | 72.532 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 NoteSevere environmental conditions may degrade optimum performance

