

10-port sector antenna, 2x 698-894, 4x 1695-2360 and 4x 3100-4000 MHz, 65° HPBW, 4x RETs and 2x SBTs.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- 18dBi max CBRS gain to align with FCC max EIRP limitations
- Internal SBT on low and mid band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and mid band
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Two LB RET and one MB RET. Both mid bands are controlled by one RET to ensure same tilt level for 4x MIMO
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz

General Specifications

Antenna Type Sector with internal RET and bias tee

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 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc



Page 1 of 4

Internal Bias Tee Port 1 | Port 3

Internal RET High band (1) | Low band (2) | Mid band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

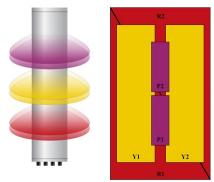
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 39.2 kg | 86.421 lb

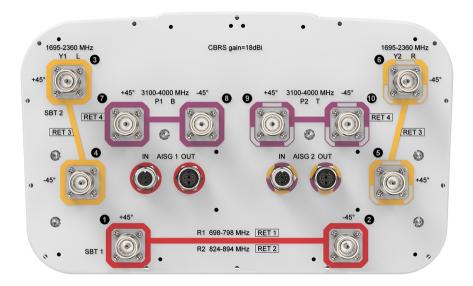
Array Layout



Array ID Frequency (MHz)		RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID		
R1	698-798	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxR1		
R2	824-894	1 - 2	2	AISG1	1	1	CPxxxxxxxxxxxxxxxR2		
Y1	1695-2360	3 - 4	3	AISG2	3	2	CPxxxxxxxxxxxxxY1		
Y2	1695-2360	5 - 6	3	AISG2	3	2	CPXXXXXXXXXXXXXXX		
P1	3100-4000	7 - 8	4	NCCO	3	2	CPxxxxxxxxxxxxxP1		
P2	3100-4000	9 - 10	4	AISG2	3	2	CPXXXXXXXXXXXXXX		

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 3100 – 4000 MHz | 698 – 798 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

•									
	R1	R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-798	824-894	1695-188	01850-199	01920-220	02200-236	03100-355	03550-370	03700-4000
RF Port	1,2	1,2	3,4,5,6	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	15.5	15.7	18.1	18.6	18.6	18.7	17.5	17.9	17.9
Beamwidth, Horizontal, degrees	64	61	62	58	61	69	57	54	56
Beamwidth, Vertical, degrees	9.1	7.8	5.5	5.1	4.8	4.5	5.7	5.3	5.1
Beam Tilt, degrees	0-11	0-11	0-10	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	15	17	19	20	20	17	19	20
Front-to-Back Ratio at 180°, dB	34	37	32	36	36	35	35	33	32

Page 3 of 4



Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	25	25	25	25	28	28	28
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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50° C, maximum, watts	150	150	250	250	250	200	100	100	100

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 2585 mm | 101.772 in

 Weight, gross
 53.4 kg | 117.727 lb

Regulatory Compliance/Certifications

Agency Classification

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

Included Products

BSAMNT-4 – 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

