

10-port sector antenna, 2x 698–896, 4x 1695–2360 and 4x 3100-4000 MHz, 65° HPBW, 3x RETs and 2x SBTs, active RET on C-Band, 1.8m Length

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and mid band allow remote RET control from the radio over the RF jumper cable
- Both mid bands are controlled by the same RET to ensure same tilt level for 4x MIMO. The high band RET is controlled via the mid band RET bus

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

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

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

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

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Power Consumption, active state, maximum 10 W

Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

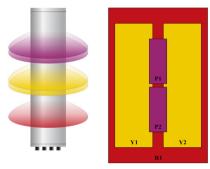
Dimensions

 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 1828 mm | 71.969 in

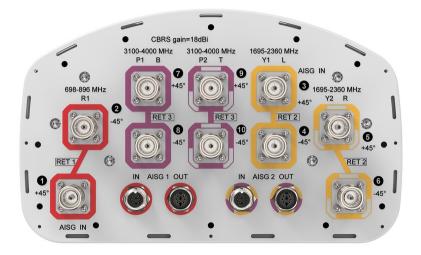
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1		
Y1	1695-2360	3 - 4			CPxxxxxxxxxxxxxXY1		
Y2	1695-2360	5 - 6	2	AISG2	CPXXXXXXXXXXXXXY1		
P1	3100-4000	7 - 8	2	11550	CPxxxxxxxxxxxxxP1		
P2	3100-4000	9 - 10	3	AISG2	CPXXXXXXXXXXXXX		

(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 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1,P2	P1,P2	P1,P2		
Frequency Band, MHz	equency Band, MHz 698-806 806-896 1695-18801850-19901920-22002200-23603100-35503550-37003700-4000										
RF Port	1,2	1,2	3-6	3-6	3-6	3-6	7-10	7-10	7-10		
Gain, dBi	14.8	15.2	17.5	17.7	17.9	17.8	17.8	17.5	17.8		
Beamwidth, Horizontal, degrees	65	62	67	63	65	67	54	63	61		
Beamwidth, Vertical, degrees	13	11.6	5.5	5.1	4.8	4.4	5.7	5.4	5		
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	0-7	0-10	0-10	0-10		
USLS (First Lobe), dB	15	15	16	17	18	14	16	17	18		
Front-to-Back Ratio at 180°, dB	26	29	34	31	28	29	31	33	32		
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25		
Isolation, Inter-band, dB	25	25	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	300	300	300	300	300	300	100	100	100		

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)

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

Packaging and Weights



 Width, packed
 380 mm | 14.961 in

 Depth, packed
 295 mm | 11.614 in

 Length, packed
 1956 mm | 77.008 in

 Weight, gross
 34.4 kg | 75.839 lb

 Weight, net
 23.1 kg | 50.927 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 Note Severe environmental conditions may degrade optimum performance

