

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4000 MHz, 65° HPBW, 3x RETs and 2x SBTs, active RET on C-Band, 2.4m 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

OBSOLETE

This product was discontinued on: March 30, 2024

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 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

Internal Bias Tee Port 1 | Port 3

Internal RET High band (1) | 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

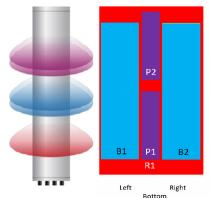
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 28.1 kg | 61.95 lb

Array Layout

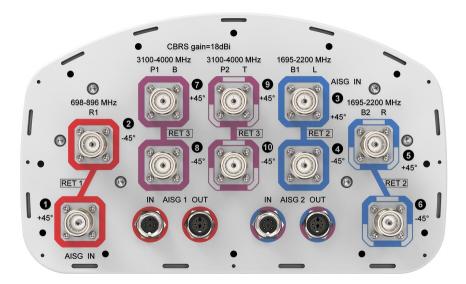


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	CPxxxxxxxxxxxxxR1
B1	1695-2200	3-4	_	CD
В2	1695-2200	5-6	2	CPxxxxxxxxxxxxxB1
P1	3100-4000	7-8	_	GD D4
P2	3100-4000	9-10	3	CPxxxxxxxxxxxxxP1

(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 $^{\circ}$ C

Electrical Specifications

	R1	R1	B1,B2	B1,B2	B1,B2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-1880	0 1850-1990	0 1920-220	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	15.8	16	17.5	17.8	18	17.8	17.7	17.5
Beamwidth, Horizontal, degrees	64	62	67	62	63	59	63	62
Beamwidth, Vertical, degrees	8.9	7.9	5.6	5.2	5	5.7	5.3	5.1
Beam Tilt, degrees	0-11	0-11	0-7	0-7	0-7	0-10	0-10	0-10
USLS (First Lobe), dB	19	19	19	21	23	17	18	18
Front-to-Back Ratio at 180°, dB	28	31	32	31	28	30	32	32
CPR at Boresight, dB	23	19	18	19	19	17	17	15
Isolation, Cross Polarization,	25	25	25	25	25	25	25	25

Page 3 of 4



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,	300	300	300	300	300	100	100	100

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 330.0 N @ 150 km/h (74.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 757.0 N @ 150 km/h (170.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 398.0 N @ 150 km/h (89.5 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
 2571 mm | 101.221 in

 Weight, gross
 40.5 kg | 89.287 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

