

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- 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 high band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

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

ANDREW® an Amphenol company

Power Consumption, active state, maximum $$10\ \mathrm{W}$$

Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

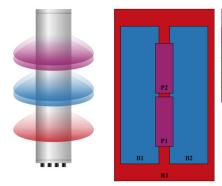
 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 1828 mm | 71.969 in

 Net Weight, antenna only
 23.1 kg | 50.927 lb

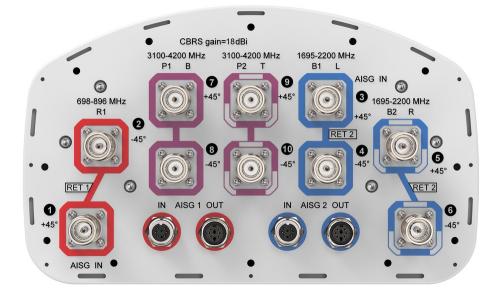
Array Layout



Array ID	Frequency (MHz) 698-896	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1			1	AISG1	CPxxxxxxxxxxxxxxR1		
B1	1695-2200	3 - 4	2	AISG2	60		
B2	1695-2200	5 - 6	2	AISGZ	CPxxxxxxxxxxxxxxB1		
P1	3100-4200	7 - 8					
P2	3100-4200	9 - 10	N/A	NA	N/A		

(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 – 4200 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	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-1880	0 1850-1990	0 1920-2200	3100-355	0 3550-370	0 3700-4200
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	14.8	15.2	17.4	17.8	18	17.8	17.6	17.2
Beamwidth, Horizontal, degrees	65	62	66	61	64	52	60	62
Beamwidth, Vertical, degrees	13	11.6	5.5	5.2	4.9	5.7	5.3	5.1
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	10	10	10
USLS (First Lobe), dB	15	15	16	18	18	15	19	18
Front-to-Back Ratio at 180°, dB	26	29	31	28	27	30	34	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
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	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

Regulatory Compliance/Certifications

Agency Classification

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

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

