

60 port multibeam ultra-high capacity antenna, 3 beams for 617-894 MHz, 6 beams for 1695-2690 MHz, 6 beams for 3300-4000 MHz, 4 ports for each beam, 1 RET per band

- Ultra-high capacity antenna provides increased throughput for special events or very high traffic locations
- Provides higher capacity than single radio massive MIMO solution
- Multibeam antenna with 3x LB beams, 6x MB beams and 6x 3GHz beams
- All beams support 4T4R service or 2T2R service for 2 licensed bands
- 3.5 GHz beams aligned with mid band beams for use with 5G NSA or SA
- One RET and one SBT for LB, Two RET and One SBT Mid and High band for remote optimization and RET control

General Specifications

Antenna Type Multibeam

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 24
RF Connector Quantity, mid band 24
RF Connector Quantity, low band 12
RF Connector Quantity, total 60

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

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



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Dimensions

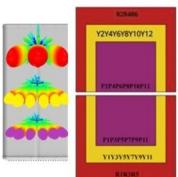
 Width
 1302 mm | 51.26 in

 Depth
 236 mm | 9.291 in

 Length
 2045 mm | 80.512 in

 Net Weight, antenna only
 123 kg | 271.168 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID		
R1	617-894	1 - 2		AISG1	1	1			
	617-894	3-4	1						
R3	617-894	5-6					ANioooooooooooo		
R4	617-894	7-8							
R5	617-894	9 - 10							
	617-894	11 - 12							
Y1	1695-2690	13 - 14	2	AISG2	13	2			
Y2	1695-2690	15 - 16					ANicoccoccicoccic		
Y3	1695-2690	17 - 18							
Y4	1695-2690	19 - 20							
Y5	1695-2690	21 - 22							
Y6	1695-2690	23 - 24							
Y7	1695-2690	25 - 26							
Y8	1695-2690	27 - 28							
Y9	1695-2690	29 - 30							
Y10	1695-2690	31 - 32							
Y11	1695-2690	33 - 34							
Y12	1695-2690	35 - 36							
P1	3300-4000	37 - 38		AISG2	13	2			
P2	3300-4000	39 - 40							
P3	3300-4000	41 - 42]						
P4	3300-4000	43 - 44	3				ANxoooooooooo		
P5	3300-4000	45 - 46							
P6	3300-4000	47 - 48							
P7	3300-4000	49 - 50							
P8	3300-4000	51 - 52							
P9	3300-4000	53 - 54							
P10	3300-4000	55 - 56							
911	3300-4000	57 - 58							
P12	3300-4000	59 - 60							

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3300 – 4000 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 3,840 W

Electrical Specifications

	R1-R4	R1-R4	Y1-Y12	Y1-Y12	Y1-Y12	P1-P12	P1-P12
Frequency Band, MHz	617-728	814-894	1695-1990	1920-2180	2300-2690	3300-3700	3700-4000
RF Port	1-12	1-12	13-36	13-36	13-36	37-60	37-60
Gain, dBi	14.8	15.6	20.2	20.7	21.2	19.6	19.7
Beam Centers, Horizontal, degrees	±0 ±30	±0 ±30	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40
Beamwidth, Horizontal, degrees	25	22	11	11	9	12	11
Beamwidth, Vertical, degrees	30	27	13.4	12.3	10.1	14	12.8
Beam Tilt, degrees	6-14	6-14	4-10	4-10	4-10	4-10	4-10
Front-to-Back Ratio at 180°, dB	28	32	31	29	27	28	27
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
Isolation, Beam to Beam, dB	15	16	19	19	18	15	15
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-145	-145
Input Power per Port, maximum, watts	120	120	120	120	120	40	40

Mechanical Specifications

ANDREW® an Amphenol company

 Wind Loading @ Velocity, frontal
 3,486.0 N @ 150 km/h (783.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 769.0 N @ 150 km/h (172.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 3,486.0 N @ 150 km/h (783.7 lbf @ 150 km/h)

Packaging and Weights

 Width, packed
 1615 mm | 63.583 in

 Depth, packed
 650 mm | 25.591 in

 Length, packed
 2570 mm | 101.181 in

 Weight, gross
 345 kg | 760.594 lb

Regulatory Compliance/Certifications

Agency Classification
UK-ROHS Compliant

Included Products

BSAMNT-8 – Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) 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

