

22-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 1427-2690 (Y2), 4x 1695-2180 (B1-B2), 4x 2490-2690 (Y1 & Y3) MHz, 65° 8x 3300-3800 (P1) HPBW, 7X RET. Y1 & Y3 share common RET.

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Retractable tilt indicator rods
- Two cluster connectors for the S4 beam-forming array, including eight RF ports plus one calibration port

General Specifications

Antenna Type Sector

Band Multiband

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 | M-LOC

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

RF Connector Quantity, low band

4

RF Connector Quantity, total

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 (5) | Low band (2)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)



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Dimensions

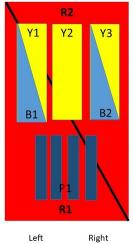
Width 395 mm | 15.551 in

Depth 228 mm | 8.976 in

Length 2100 mm | 82.677 in

Net Weight, without mounting kit 42 kg | 92.594 lb

Array Layout

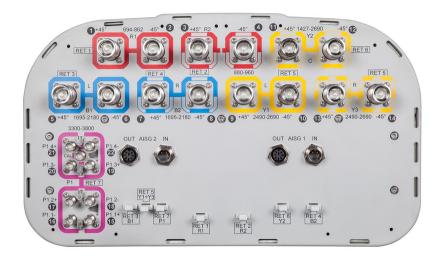


Arr	ray	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R	1	694-862	1-2	1	CPxxxxxxxxxxxxxxR1
R	2	880-960	3-4	2	CPxxxxxxxxxxxxxxR2
В	1	1695-2180	5-6	3	CPxxxxxxxxxxxxxB1
В	2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxB2
Υ	1	2490-2690	9-10	_	CD.
Υ	3	2490-2690	13-14	5	CPxxxxxxxxxxxxxXY1
Υ	2	1427-2690	11-12	6	CPxxxxxxxxxxxxxxY2
P	1	3300-3800	15-22	7	CPxxxxxxxxxxxxxP1

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 3300

- 3800 MHz | 694 - 862 MHz | 880 - 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1	R2	B1-B2	Y1&Y3	Y2	Y2	Y2	P1
Frequency Band, MHz	694-862	880-960	1695-218	0 2490-269	0 1427-1518	8 1695–2200	2300-269	0 3300-3800
Gain, dBi	14.7	15	16.5	16.7	14.6	16.3	17	15.1
Beamwidth, Horizontal, degrees	65	64	66	60	70	63	56	91
Beamwidth, Vertical, degrees	10.5	8.9	7.1	5.6	9.3	7.5	5.8	7.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	22	21	18	19	16	21	15
Front-to-Back Ratio at 180°, dB	35	33	32	30	32	32	34	27
Coupling level, Amp, Antenna port to Cal port, dB								26



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0)	1 ()							
							±2	
							0.9	
							7	
28	28	28	28	28	27	27	25	
28	28	28	28	28	28	28	19	
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	
-150	-150	-150	-150	-150	-150	-150	-145	
300	300	250	200	200	250	250	75	
Electrical Specifications, Broadcast 65°								
							3300-3800	
							16.2	
							60	
							7.1	
							16	
Electrical Specifications, Service Beam								
							3300-3800	
							19.8	
							25	
							25	
							28	
							12	
							25	
							10	
							28	
	28 1.5 14.0 -150 300	28 28 1.5 14.0 1.5 14.0 -150 -150 300 300 fons, Broadcast	28 28 28 1.5 14.0 1.5 14.0 1.5 14.0 -150 -150 -150 300 300 250 Sons, Broadcast 65°	28 28 28 28 1.5 14.0	28 28 28 28 28 1.5 14.0 1.5 14	28 28 28 28 28 28 28 1.5 14.0	28 28 28 28 28 28 28 28 28 1.5 14.0 1.5	

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Beamwidth, dB		
Steered 30° Gain, dBi		19.4
Steered 30° Beamwidth, Horizontal, degrees		25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB		27
Steered 30° Horizontal Sidelobe, dB		10
Steered 42° CPR at Beampeak, dB		27
Electrical Specifications, Soft Split		
Frequency Band, MHz		3300-3800
Gain, dBi		19.2
Beamwidth, Horizontal, degrees		29
CPR at Beampeak, dB		17
Front-to-Back Total Power at 180° ± 30°, dB		27
Horizontal Sidelobe, dB		17
Mechanical Specifications		
Effective Projective Area (EPA), frontal	0.4 m ² 4.306 ft ²	
Effective Projective Area (EPA), lateral	0.29 m ² 3.122 ft ²	
Mechanical Tilt Range	0°-12°	
Wind Loading @ Velocity, frontal	427.0 N @ 150 km/h (96.0 lbf @ 150 km/h)	
Wind Loading @ Velocity, lateral	312.0 N @ 150 km/h (70.1 lbf @ 150 km/h)	
Wind Loading @ Velocity, maximum	730.0 N @ 150 km/h (164.1 lbf @ 150 km/h)	
Wind Loading @ Velocity, rear	439.0 N @ 150 km/h (98.7 lbf @ 150 km/h)	
Wind Speed, maximum	241 km/h (150 mph)	
Packaging and Weights		
Width, packed	505 mm 19.882 in	
Depth, packed	386 mm 15.197 in	
Length, packed	2233 mm 87.913 in	
Weight, gross	57.7 kg 127.207 lb	



Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.andrew.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



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 Note Severe environmental conditions may degrade optimum performance

