

18-port sector antenna, 6x 694-960, 12x 1695-2690 MHz, 65° HPBW, 9xRET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

RF Connector Quantity, low band

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

6

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, mid band 12

RF Connector Quantity, total 18

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 Low band (3) | Mid band (6)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0



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Dimensions

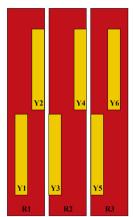
 Width
 579 mm | 22.795 in

 Depth
 212 mm | 8.346 in

 Length
 2100 mm | 82.677 in

Net Weight, antenna only 47.7 kg | 105.16 lb

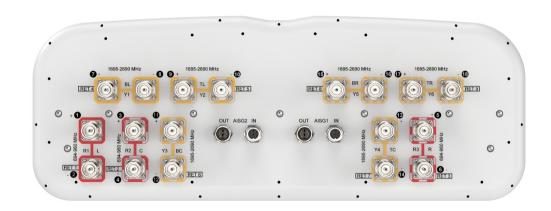
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxR3
Y1	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxx4
Y5	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxY5
Y6	1695-2690	17 - 18	9	AISG1	CPxxxxxxxxxxxxxY6

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 $^{\circ}$ C

Electrical Specifications

	R1,R3	R1,R3	R1,R3	R2	R2	R2
Frequency Band, MHz	698-806	790-894	890-960	698-806	790-894	890-960
RF Port	1, 2, 5, 6	1, 2, 5, 6	1, 2, 5, 6	3, 4	3, 4	3, 4
Gain at Mid Tilt, dBi	13.9	14.4	14.8	12.4	13.6	14.7
Beamwidth, Horizontal,	65	60	55	69	57	51

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degrees						
Beamwidth, Vertical, degrees	10.5	9.2	8.7	10.9	10.6	9.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	16	16	12	16	16
Front-to-Back Ratio at 180°, dB	25	24	25	25	26	30
Front-to-Back Total Power at 180° ± 30°, dB	20	20	22	22	23	26
CPR at Boresight, dB	18	18	21	16	18	22
Isolation, Cross Polarization, typical, dB	25	25	25	25	25	25
Isolation, Inter-band, typical, dB	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	300

Electrical Specifications

	Y1,Y3,Y5	Y1,Y3,Y5	Y1,Y3,Y5	Y1,Y3,Y5
Frequency Band, MHz	1695-1990	1920-2300	2300-2500	2490-2690
RF Port	7, 8, 11, 12, 15, 16			
Gain at Mid Tilt, dBi	16.2	17.1	18	18
Beamwidth, Horizontal, degrees	63	65	57	59
Beamwidth, Vertical, degrees	6.7	6.1	5.3	5.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	18	20
Front-to-Back Ratio at 180°, dB	29	29	33	33
Front-to-Back Total Power at 180° ± 30°, dB	23	23	25	27
CPR at Boresight, dB	18	18	19	21
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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

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Input Power per Port at 50°C, 250 250 200 200 maximum, watts

Electrical Specifications

	Y2,Y4,Y6	Y2,Y4,Y6	Y2,Y4,Y6	Y2,Y4,Y6
Frequency Band, MHz	1695-1990	1920-2300	2300-2500	2490-2690
RF Port	9, 10, 13, 14, 17, 18			
Gain at Mid Tilt, dBi	16	16.9	17.5	17.4
Beamwidth, Horizontal, degrees	60	59	58	62
Beamwidth, Vertical, degrees	6.6	5.9	5.4	5.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	16	17	15
Front-to-Back Ratio at 180°, dB	30	30	32	33
Front-to-Back Total Power at 180° ± 30°, dB	25	25	26	27
CPR at Boresight, dB	19	21	21	22
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 576.0 N @ 150 km/h (129.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 241.0 N @ 150 km/h (54.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 919.0 N @ 150 km/h (206.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 584.0 N @ 150 km/h (131.3 lbf @ 150 km/h)

Packaging and Weights

 Width, packed
 681 mm | 26.811 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2239 mm | 88.15 in



Weight, gross 62.3 kg | 137.348 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



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

