

16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 7x RET

- 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
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type Sector

Band Multiband

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

bracket

Performance NoteOutdoor usageRF Connector Interface4.3-10 Female

RF Connector Location

RF Connector Quantity, mid band

RF Connector Quantity, low band

4

RF Connector Quantity, total

16

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 (2) | Mid band (5)

Power Consumption, active state, maximum $8~\mathrm{W}$ Power Consumption, idle state, maximum $1~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 430 mm | 16.929 in

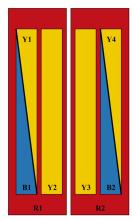
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Depth 197 mm | 7.756 in

Length 1599 mm | 62.953 in

Net Weight, antenna only 33.2 kg | 73.193 lb

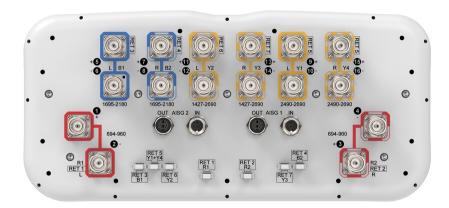
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID			
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1			
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxR2			
B1	1695-2180	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxB1			
B2	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxB2			
Y1	2490-2690	9 - 10	_	AJCC4	CD			
Y4	2490-2690	15 - 16	5	AISG1	CPxxxxxxxxxxxxxY1			
Y2	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY2			
Y3	1427-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxXY3			

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 960

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 MHz

Polarization ±45°

Total Input Power, maximum 1,200 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	B1,B2	B1,B2	Y1,Y4
Frequency Band, MHz	698-80	6790-89	4890-96	01427-151	81695-199	951920-230	002300-250	002490-269	901695-199	951920-21	802490-2690
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	11,12,13,1	4 11,12,13,1	4 11,12,13,1	4 11,12,13,1	4 11,12,13,1	4 5,6,7,8	5,6,7,8	9,10,15,16
Beamwidth, Horizontal, degrees	59	56	58	71	68	63	59	56	71	65	61
Beamwidth, Vertical, degrees	13.4	12.1	11.2	7.8	6.2	5.6	5	4.7	6.1	5.6	4.7
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	15	14	12	13	14	16	16	17	16	21
Front-to- Back Ratio at 180°, dB	25	24	25	31	33	33	32	32	31	31	29
Front-to- Back Total Power at 180° ± 30°, dB	18	19	21	23	26	26	27	27	24	24	22
CPR at Boresight, dB	21	19	22	17	19	18	20	18	18	17	17
CPR at Sector, dB	5	7	7	9	5	5	8	3	8	9	7
Isolation, Cross Polarization, dB	26	26	26	26	26	26	26	26	27	27	27
Isolation, Inter-band, dB	26	26	26	26	26	26	26	26	26	26	27
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	1.5 14.0	1.5 14.0	1.5 14.0

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-80	06790-89	94890-96	601427-151	81695-199	951920-230	002300-250	002490-269	001695-199	51920-218	802490-2690
Gain by all Beam Tilts, average, dBi	13.3	13.5	13.8	14.6	16	17	17.9	17.8	15.8	16.5	16.8
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.8	±0.5	±0.8	±0.9	±0.6	±0.9	±0.6	±0.7	±0.4
Beamwidth, Horizontal Tolerance, degrees	±8	±8	±8	±9	±6	±5	±4	±5	±4	±8	±5
Beamwidth, Vertical Tolerance, degrees	±1.2	±1	±0.7	±0.4	±0.5	±0.5	±0.3	±0.2	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	14	15	14	12	13	14	16	15	13	14	14

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 203.0 N @ 150 km/h (45.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 594.0 N @ 150 km/h (133.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 243.0 N @ 150 km/h (54.6 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed 530 mm | 20.866 in

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 Depth, packed
 349 mm | 13.74 in

 Length, packed
 1771 mm | 69.724 in

Weight, gross 43 kg | 94.799 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

