

8-port sector antenna, 4x 694-960 and 4x 1695-2690 MHz, 65° HPBW, 4x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

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 (2)

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

Protocol 3GPP/AISG 2.0 (Single RET)



Dimensions

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, antenna only 35.3 kg | 77.823 lb

Array Layout

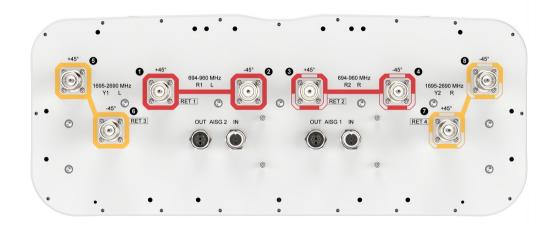


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxXY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxY2

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	694-790	790-890	890-960	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain at Mid Tilt, dBi	14.4	14.9	15.2	18.4	18.6	18.8	19.2	19.2
Beamwidth, Horizontal,	69	66	61	58	60	61	59	65

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degrees								
Beamwidth, Vertical, degrees	11.7	10.5	9.7	5.5	5.2	5	4.4	4.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	17	19	20	22	23	22
Front-to-Back Ratio at 180°, dB	32	33	33	37	39	38	33	33
Front-to-Back Total Power at 180° ± 30°, dB	19	20	22	30	31	28	27	27
Isolation, Cross Polarization, dB	25	25	25	27	27	27	27	27
Isolation, Inter-band, dB	25	25	25	27	27	27	27	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-188	0 1850–199	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	14.3	14.7	15	18.2	18.5	18.7	19	18.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±0.6	±0.2	±0.3	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±4	±4	±4	±5	±2	±2	±5	±6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.6	±0.4	±0.2	±0.3	±0.2	±0.1
USLS, beampeak to 20° above beampeak, dB	17	17	16	15	15	16	16	16
CPR at Boresight, dB	18	19	22	20	23	22	24	22
CPR at Sector, dB	6	5	7	8	9	8	7	3

Mechanical Specifications

Wind Loading @ Velocity, frontal	711.0 N @ 150 km/h (159.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	229.0 N @ 150 km/h (51.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	998.0 N @ 150 km/h (224.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	563.0 N @ 150 km/h (126.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2015 mm | 79.331 in

 Weight, gross
 49 kg | 108.026 lb

Regulatory Compliance/Certifications

Agency Classification

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

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

