

16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 6x RET

- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- New endcap designs provide improved wind loading performance
- All internal RET actuators are connected in "Cascaded MRET" configuration

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, high band 0
RF Connector Quantity, mid band 12
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 (4)

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

Protocol 3GPP/AISG 2.0 (Multi-RET)

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Dimensions

 Width
 498 mm | 19.606 in

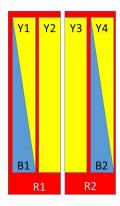
 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 42.3 kg | 93.255 lb

0 1

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1		
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2		
B1	1695-2180	5-6	3	CD-annuanananananan B1		
B2	1695-2180	7-8	3	CPxxxxxxxxxxxxxB1		
Y1	2490-2690	9-10	4	CD-annanananana V1		
Y4	2490-2690	15-16	4	CPxxxxxxxxxxxxxXY1		
Y2	1427-2690	11-12	5	CPxxxxxxxxxxxxxxXY2		
Y3	1427-2690	13-14	6	CPxxxxxxxxxxxxxxXY3		

Left Right Bottom

(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

 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	B1,B2	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	694-790	790-890	890-960	1695-2180	2490-2690	1427-1518	3 1695–218	0 2300-2690
RF Port	1-4	1-4	1-4	5-8	9,10,15,16	11-14	11-14	11-14
Gain, dBi	14.9	15.4	15.6	18.1	18.6	15.1	17	17.5
Beamwidth, Horizontal, degrees	71	65	62	64	60	66	62	57
Beamwidth, Vertical, degrees	10.4	9.2	8.3	5.2	4.1	9.3	7.3	5.6
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	16	17	24	20	19	22
Front-to-Back Ratio at 180°, dB	32	33	31	33	29	33	35	32
Isolation, Cross Polarization, dB	28	28	28	28	28	26	27	26
Isolation, Inter-band, dB	28	28	28	28	28	27	27	28
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	150	250	250	200

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.68 \text{ m}^2 \mid 7.319 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.21 \text{ m}^2 \mid 2.26 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 720.0 N @ 150 km/h (161.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 220.0 N @ 150 km/h (49.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 864.0 N @ 150 km/h (194.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 496.0 N @ 150 km/h (111.5 lbf @ 150 km/h)

Wind Speed, maximum 288 km/h (179 mph)



Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2287 mm | 90.039 in

 Weight, gross
 56.8 kg | 125.222 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-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

