

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x 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

General Specifications

Antenna Type Sector

Band Multiband

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

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 0
RF Connector Quantity, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET Low band (1) | Mid band (2)

Power Consumption, active state, maximum $10~\mathrm{W}$ Power Consumption, idle state, maximum $1~\mathrm{W}$

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 301 mm | 11.85 in

 Depth
 180 mm | 7.087 in

 Length
 1850 mm | 72.835 in



Net Weight, antenna only

23 kg | 50.706 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID	
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxR1	
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxY1	
Y2	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxY2	

(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°

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an Amphenol company

Total Input Power, maximum

500 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2180	2300-2500	2500-2690
Gain at Mid Tilt, dBi	15	15.4	15.4	17.8	18.8	19.2	19.1
Beamwidth, Horizontal, degrees	71	71	68	63	61	61	62
Beamwidth, Vertical, degrees	11.7	10.5	9.9	5.6	5	4.3	4.1
Beam Tilt, degrees	0-13	0-13	0-13	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	16	21	19	20	17
Front-to-Back Ratio at 180°, dB	29	34	30	30	33	35	32
Front-to-Back Total Power at 180° ± 30°, dB	23	24	23	24	26	27	25
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 281.0 N @ 150 km/h (63.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 247.0 N @ 150 km/h (55.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 618.0 N @ 150 km/h (138.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 286.0 N @ 150 km/h (64.3 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 409 mm | 16.102 in

 Depth, packed
 299 mm | 11.772 in

 Length, packed
 2036 mm | 80.158 in

 Weight, gross
 34 kg | 74.957 lb

Regulatory Compliance/Certifications



Agency Classification

CE Compliant with the relevant CE product directives

CHINA-ROHS Above 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/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

