

10-port sector antenna, 2x 694-960, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 4x RET. High bands (H1/H2) arrays are diplexed at the element level.

 Independent tilt for 694-960 and 1695-2180 MHz arrays. Shared tilt for the two 2490-2690 MHz arrays

General Specifications

Antenna Type Sector

Band Multiband

Grounding Type RF 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

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 0
RF Connector Quantity, low band 2
RF Connector Quantity, total 10

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (3) | Low band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0



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Dimensions

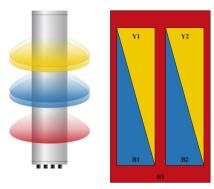
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 1400 mm | 55.118 in

Net Weight, without mounting kit 20.3 kg | 44.754 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	
B1	1695-2180	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxB1	
B2	1695-2180	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxB2	
Y1	2490-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxY1	
Y2	2490-2690	9 - 10	65°	4			

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

Port Configuration



Electrical Specifications



Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 $^{\circ}$ C

Electrical Specifications

Frequency Band, MHz	694-862	880-960	1695-1920	1920-2180	2490-2690
Gain, dBi	14.2	14.7	17.1	17.4	17.6
Beamwidth, Horizontal, degrees	68	63	61	61	65
Beamwidth, Vertical, degrees	16.2	14.1	7.4	6.8	5.6
Beam Tilt, degrees	3-18	3-18	3-13	3-13	3-13
USLS (First Lobe), dB	18	19	19	21	14
Front-to-Back Ratio at 180°, dB	32	32	31	36	38
CPR at Boresight, dB	20	21	20	20	19
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	200

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 221.0 N @ 150 km/h (49.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 185.0 N @ 150 km/h (41.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 469.0 N @ 150 km/h (105.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 448 mm | 17.638 in

 Depth, packed
 355 mm | 13.976 in

 Length, packed
 1544 mm | 60.787 in

 Weight, gross
 33.9 kg | 74.737 lb

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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-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



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Agency

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Classification

CE Compliant with the relevant CE product directives 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



