

20-port sector antenna, 4x 617-894, 8x 1695-2690 MHz 65° HPBW and 8x 3300-4000 MHz, Beamformer, 7x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Cluster connectors for the beam-forming array, including eight RF ports plus one calibration port
- Beamforming array for 3100-4000 MHz, n77 and n78

This product will be discontinued on: December 31, 2025

General Specifications

Antenna Type Sector and beamforming

Band Multiband
Calibration Connector Interface M-LOC

Calibration Connector Quantity 1

Color Light Gray (RAL 7035)

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

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female | M-LOC

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 20

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



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Internal RET High band (1) | 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 (Single RET)

Dimensions

 Width
 498 mm | 19.606 in

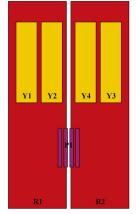
 Depth
 197 mm | 7.756 in

 Length
 2000 mm | 78.74 in

 Net Weight, antenna only
 38 kg | 83.776 lb

 TDD Column Spacing
 41 mm | 1.614 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	617-894	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY4
P1	3300-4000	13 - 20	7	AISG1	CPxxxxxxxxxxxxxxP1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3300 – 4000 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 1,400 W @ 50 °C

Electrical Specifications

	•										
	R1,R2	R1,R2	Y1,Y3	Y1,Y3	Y1,Y3	Y1,Y3	Y2,Y4	Y2,Y4	Y2,Y4	Y2,Y4	
Frequency Band, MHz	617-698	698-894	1695-188	801850-199	901920-220	002490-269	901695-188	801850-199	01920-220	02490-2690	
RF Port	1,2,3,4	1,2,3,4	5,6,9,10	5,6,9,10	5,6,9,10	5,6,9,10	7,8,11,12	7,8,11,12	7,8,11,12	7,8,11,12	
Gain, dBi	13.8	14.8	15.9	16.3	16.5	17	15.8	16.1	16.5	16.7	
Beamwidth, Horizontal, degrees	68	59	72	72	70	56	63	64	60	59	
Beamwidth, Vertical, degrees	13.8	11.7	7.7	7.3	6.9	5.7	8.1	7.7	7.3	6.1	
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	
USLS (First	17	16	17	19	18	19	16	18	17	18 Page 3 of	f

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Lobe), dB										
Front-to- Back Ratio at 180°, dB	28	29	33	32	31	26	34	37	37	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200	200	200	200

Electrical Specifications

	P1	P1
Frequency Band, MHz	3300-380	03700-4000
RF Port	13-20	13-20
Gain, dBi	15.8	16.1
Beamwidth, Horizontal, degrees	88	82
Beamwidth, Vertical, degrees	6.2	5.8
Beam Tilt, degrees	0-10	0-10
USLS (First Lobe), dB	14	14
Front-to- Back Ratio at 180°, dB	31	30
Coupling	26	26

level, Amp, Antenna port to Cal port, dB		
Coupling level, max Amp Δ, Antenna port to Cal port, dB	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB	0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees	7	7
Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	25	25
Isolation, Co- polarization, dB	19	19
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-140	-140
Input Power per Port at 50°C, maximum, watts	75	75

Electrical Specifications, Broadcast 65°

Frequency 3300-38003700-4000 Band, MHz

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Gain, dBi	17.5	18
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	6.3	5.9
Front-to- Back Total Power at 180° ± 30°, dB	27	27
USLS (First Lobe), dB	18	19

Electrical Specifications, Service Beam

Frequency Band, MHz	3300-380	03700-4000
Steered 0° Gain, dBi	20.5	20.7
Steered 0° Beamwidth, Horizontal, degrees	25	25
Steered 0° Front-to- Back Total Power at 180° ± 30°, dB	30	30
Steered 0° Horizontal Sidelobe, dB	14	14
Steered 30° Gain, dBi	19.6	20.2
Steered 30° Beamwidth, Horizontal, degrees	28	25
Steered 30° Front-to- Back Total Power at 180° ± 30°, dB	29	28

Electrical Specifications, Soft Split

Frequency 3300-38003700-4000

Band, MHz

Gain, dBi 19.5 19.9 **Beamwidth,** 32 29

Horizontal, degrees

Front-to- 29 29

Back Total Power at 180° ± 30°, dB

Horizontal 21 20

Sidelobe, dB

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 210.0 N @ 150 km/h (47.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 826.0 N @ 150 km/h (185.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 474.0 N @ 150 km/h (106.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2187 mm | 86.102 in

 Weight, gross
 51.8 kg | 114.199 lb

Regulatory Compliance/Certifications

Agency Classification

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

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

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

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

