

20-port sector antenna, 4x 617-894, 8x 1695-2690 MHz 65° HPBW and 8x 2500-4000 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

General Specifications

Antenna Type Sector and beamforming

BandMultibandCalibration Connector InterfaceM-LOCCalibration Connector Quantity1

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

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

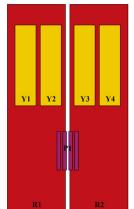
 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 44.3 kg | 97.665 lb

TDD Column Spacing 58 mm | 2.283 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	CPxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxx4
P1	2500-4000	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 | 2500 – 4000 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 1,400 W @ 50 $^{\circ}$ C

Electrical Specifications

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	P1	P1	P1
Frequency Band, MHz	617-698	698-894	1695-1920	1920-2200	2490-2690	2500-2690	3300-3800	3700-4000
RF Port	1,2,3,4	1,2,3,4	5-12	5-12	5-12	13-20	13-20	13-20
Gain, dBi	14.5	15.1	16.2	17.1	17.4	14.1	15.4	15.1
Beamwidth, Horizontal, degrees	66	56	65	60	56	87	64	65
Beamwidth, Vertical, degrees	11.7	10.1	6.7	6	5	9	6.6	6.2
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	16	16	16	15	16	16
Front-to-Back Ratio at 180°, dB	28	29	30	30	29	29	26	23



Page 3 of 7

Coupling level, Amp, Antenna port to Cal port, dB						26	26	26
Coupling level, max Amp Δ, Antenna port to Cal port, dB						±2	±2	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB						0.9	0.9	0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees						7	7	7
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB						18	18	18
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	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	80	80	80

Electrical Specifications, Broadcast 65°

Frequency Band, MHz 2500-			-2690 3300-3800 3700-4000		
Gain, dBi	16.2	15.8	15.6		
Beamwidth, Horizontal, degrees	65	65	65		
Beamwidth, Vertical, degrees	9.1	6.6	6.3		
Front-to-Back Total Power at 180° ± 30°, dB	27	22	21		
USLS (First Lobe), dB	20	17	19		

Electrical Specifications, Envelope Pattern

Frequency Band, MHz	2500-2690 3300-3800 3700-4000		
Gain, dBi	18.9	20.2	20
Beamwidth, Horizontal at 10 dB, degrees	120	125	125
Beamwidth, Vertical at 3 dB, degrees	9	6.6	6.3
Front-to-Back Total Power at 180° ± 30°, dB	28	24	23
USLS (First Lobe), dB	20	18	20

Electrical Specifications, Service Beam



Frequency Band, MHz	2500-2690 3300-3800 3700-400		
Steered 0° Gain, dBi	19	20.1	19.9
Steered 0° Beamwidth, Horizontal, degrees	25	19	19
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	31	26	25
Steered 0° Horizontal Sidelobe, dB	13	12	11
Steered 30° Gain, dBi	18.2	18.5	18
Steered 30° Beamwidth, Horizontal, degrees	27	21	18
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	29	24	22

Electrical Specifications, Soft Split

Frequency Band, MHz	2500-2690
Gain, dBi	18.2
Beamwidth, Horizontal, degrees	31
Front-to-Back Total Power at 180° ± 30°, dB	30
Horizontal Sidelobe, dB	17

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
 58.7 kg | 129.411 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

