

20-port sector antenna, 4x 694–960, 8x 1695–2690 MHz, 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 5x 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 2 female | 2 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 5

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

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

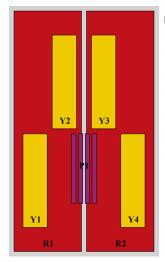
 Depth
 197 mm | 7.756 in

 Length
 2688 mm | 105.827 in

 Net Weight, without mounting kit
 52.5 kg | 115.743 lb

Array Layout

TDD Column Spacing

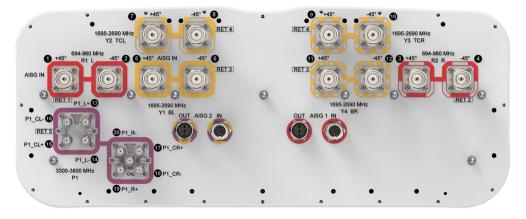


RF Connector	Array ID	Frequency (MHz)	RET (SRET)	AISG RET UID	
1 - 2	R1	694-960	1	CPxxxxxxxxxxxxxR1	
3 - 4	R2	694-960	2	CPxxxxxxxxxxxxxR2	
5 - 6	Y1	1695-2690	3	CPxxxxxxxxxxxxxY1	
11 - 12	Y4	1695-2690	3	CPXXXXXXXXXXXXXX	
7 - 8	Y2	1695-2690	4	CD::::::::::::::::::::::::::::::::::::	
9 - 10	Y3	1695-2690	4	CPxxxxxxxxxxxxxY2	
13 - 20	P1	3300-3800	5	CPxxxxxxxxxxxxxP1	

42 mm | 1.654 in

(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 – 3800 MHz | 694 – 960 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	694-790	790-890	880-960	1695-192	0 1920-218	0 2300-250	0 2500-269	0 3300-3800
Gain, dBi	16	16	16.5	17.1	17.5	17.9	17.6	16.2
Beamwidth, Horizontal, degrees	72	65	62	64	66	63	63	88
Beamwidth, Vertical, degrees	8.8	8	7.3	6.6	5.9	5.2	5	6.1
Beam Tilt, degrees	1-11	1-11	1-11	0-10	0-10	0-10	0-10	2-12
USLS (First Lobe), dB	18	19	21	20	20	20	17	15
Front-to-Back Ratio at 180°, dB	32	32	38	32	31	33	31	29
Coupling level, Amp, Antenna port to Cal port, dB								26
Coupling level, max Amp Δ , Antenna port to Cal port, dB								±2
Coupler, max Amp Δ , Antenna port to Cal port, dB								0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees								7
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	25	25	25	25	25
Isolation, Co-polarization, dB								20
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	-145
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3800
Gain, dBi	16.7
Beamwidth, Horizontal, degrees	64
Beamwidth, Vertical, degrees	6.1

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USLS (First Lobe), dB		17
Electrical Specifications, Service E	Beam	
Frequency Band, MHz		3300-3800
Steered 0° Gain, dBi		21.1
Steered 0° Beamwidth, Horizontal, degrees		24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB		27
Steered 30° Gain, dBi		20.1
Steered 30° Beamwidth, Horizontal, degrees		29
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB		29
Electrical Specifications, Soft Spli	t	
Frequency Band, MHz		3300-3800
Gain, dBi		20.1
Beamwidth, Horizontal, degrees		31
Front-to-Back Total Power at 180° ± 30°, dB		28
Mechanical Specifications		
Wind Loading @ Velocity, frontal	1,041.0 N @ 150 km/h (234.0 lbf @ 150 km/h)	
Wind Loading @ Velocity, lateral	360.0 N @ 150 km/h (80.9 lbf @ 150 km/h)	
Wind Loading @ Velocity, maximum	1,346.0 N @ 150 km/h (302.6 lbf @ 150 km/h)	
Wind Loading @ Velocity, rear	857.0 N @ 150 km/h (192.7 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	2935 mm 115.551 in	
Weight, gross	73.5 kg 162.04 lb	
Regulatory Compliance/Certification	ns	

ANDREW

Classification

Agency

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.

BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor 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



BSAMNT-M4



Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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, net4.6 kg | 10.141 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



