

20-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2690 MHz, 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 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
- Antenna shape optimized for wind load reduction
- S4 array uses MQ cluster connectors
- Retractable tilt indicator rods
- Includes seven Internal RET's

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface MQ5

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 | MQ4 | MQ5

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 RET High band (1) | Low band (2) | Mid band (4)



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Power Consumption, active state, maximum 8 W

Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

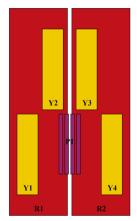
 Width
 430 mm | 16.929 in

 Depth
 197 mm | 7.756 in

 Length
 2769 mm | 109.016 in

TDD Column Spacing 42 mm | 1.654 in

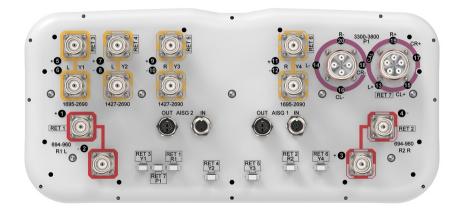
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1		
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2		
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1		
Y2	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY2		
Y3	1427-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXY3		
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxx4		
P1	3300-3800	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 1427 – 2690 MHz | 1695 – 2690 MHz | 3300 – 3800 MHz | 694 – 960

 MHz

Polarization ±45°

Total Input Power, maximum 1,500 W @ 50 °C

BASTA Version, electrical BASTA v12

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	Y1,Y4	Y1,Y4	P1
Frequency Band, MHz	694-790 790-890 880-960 1427-15181695-22002300-26901695-22002300-26903300-380								03300-3800
RF Port	1-4	1-4	1-4	7-10	7-10	7-10	5,6,11,12	5,6,11,12	13-20
Gain, dBi	15.6	16.1	16.4	15.4	17.5	18.3	17.3	18.1	15.8
Beamwidth, Horizontal, degrees	63	55	52	66	61	61	64	62	84
Beamwidth, Vertical, degrees	7.7	6.8	6.3	7.1	5.5	4.4	6	4.9	6.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	19	17	18	15	17	16	21	16
Front-to-Back Ratio at 180°, dB	32	32	32	32	31	31	30	31	27
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	27	27	27	26	26	26	27	27	25
Isolation, Inter-band, dB	27	27	27	26	26	26	26	26	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153	-130

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Input Power per Port at 50° C, maximum, watts	300	300	300	250	250	200	250	200	75	
Electrical Specifications, Broadcast 65°										
Frequency Band, MHz									3300-3800	
Gain, dBi									18.1	
Beamwidth, Horizontal, degrees									65	
Beamwidth, Vertical, degrees									6.3	
Front-to-Back Total Power at 180° ± 30°, dB									26	
USLS (First Lobe), dB									21	
Electrical Specifica	itions,	Service	Beam	1						
Frequency Band, MHz									3300-3800	
Steered 0° Gain, dBi									20.8	
Steered 0° Beamwidth, Horizontal, degrees									24	
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB									29	
Steered 0° Horizontal Sidelobe, dB									16	
Steered 30° Gain, dBi									19.5	
Steered 30° Beamwidth, Horizontal, degrees									29	
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB									27	
Electrical Specifica	ations,	Soft Sp	olit							
Frequency Band, MHz									3300-3800	
Gain, dBi									19.6	
Beamwidth, Horizontal, degrees									31	
Front-to-Back Total Power at 180° ± 30°, dB									27	
Horizontal Sidelobe, dB									19	
Mechanical Specific	cations									

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BASTA Version, mechanicalBASTA v12

 Wind Loading @ Velocity, frontal
 651.0 N @ 150 km/h (146.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 351.0 N @ 150 km/h (78.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,028.0 N @ 150 km/h (231.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 421.0 N @ 150 km/h (94.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 530 mm | 20.866 in

 Depth, packed
 356 mm | 14.016 in

 Length, packed
 2897 mm | 114.055 in

 Weight, gross
 70.6 kg | 155.646 lb

 Weight, net
 49.6 kg | 109.349 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.

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



