

20-port sector antenna, 4x 698–896, 8x 1695–2360 MHz, 65° HPBW and 8x 3400-4000 MHz, 90° HPBW, 7x RET

- Multi-band FDD antenna featuring C-Band 8T8R functionality
- The C-band RET is factory set to AISG2. All other RET are assigned to AISG1
- Feature the same dimensions as existing 8 and 12-port FDD capable antennas
- New endcap designs provide improved wind loading performance

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface 4.3-10 Female

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

RF Connector Location Bottom

RF Connector Quantity, high band

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)

Power Consumption, active state, maximum 8 W

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

Width 498 mm | 19.606 in

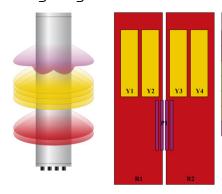
Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 57 kg | 125.663 lb

TDD Column Spacing 41 mm | 1.614 in

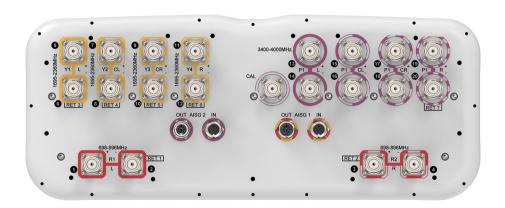
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxXMM.1
R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxXMM.2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxMM.4
Y3	1695-2360	9 - 10	5	AISG1	CPxxxxxxxxxxxMM.5
Y4	1695-2360	11 - 12	6	AISG1	CPxxxxxxxxxxxMM.6
P1	3400-4200	13 - 20	7	AISG2	CPxxxxxxxxxxxxMM.1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 3400 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-188	0 1850-199	0 1920-218	0 2300-236	0 3400-380	0 3700-4000
Gain, dBi	15.8	16.5	16.4	17.2	17.8	18	16.4	16.6
Beamwidth, Horizontal, degrees	70	63	73	66	61	58	86	73
Beamwidth, Vertical, degrees	8.8	7.8	6.1	5.8	5.5	5	6.1	5.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	0-10	0-10
USLS (First Lobe), dB	16	16	16	17	17	17	15	15
Front-to-Back Ratio at 180°, dB	29	29	33	31	31	33	28	29
Coupling level, Amp, Antenna							26	26

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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	25	25	25	25	25	25	
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	
Isolation, Co-polarization, dB							19	19	
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	-145	-145	
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	250	75	75	
Electrical Specificati	ions, Br	oadcast	: 65°						
Frequency Band, MHz							3400-38	00 3700-4000	
Gain, dBi							18	18.7	
Beamwidth, Horizontal, degrees							73	65	
Beamwidth, Vertical, degrees							6.1	5.8	
Front-to-Back Total Power at 180° ± 30°, dB							24	25	
USLS (First Lobe), dB							16	17	
Electrical Specificati	ions, Er	rvelope	Pattern						
Frequency Band, MHz							3400-38	00 3700-4000	
Gain, dBi							21	21.2	
Electrical Specificati	ions, Se	rvice Be	eam						
Frequency Band, MHz							3400-38	00 3700-4000	
Steered 0° Gain, dBi							20.8	21.1	
Steered 0° Beamwidth, Horizontal, degrees							25	26	
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB							30	30	
Steered 0° Horizontal Sidelobe, dB							14	14	
Steered 0° USLS (First Lobe),							17	17	
								D/	



dB		
Steered 30° Gain, dBi	19.8	20.5
Steered 30° Beamwidth, Horizontal, degrees	30	25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	26	27

Electrical Specifications, Soft Split

Frequency Band, MHz	3400-380	0 3700-4000
Gain, dBi	19.8	20.2
Beamwidth, Horizontal, degrees	30	27
Front-to-Back Total Power at 180° ± 30°, dB	27	27
Horizontal Sidelobe, dB	15	15
USLS (First Lobe), dB	16	16

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.91 m ² 9.795 ft ²
Effective Projective Area (EPA), lateral	0.29 m ² 3.122 ft ²
Wind Loading @ Velocity, frontal	970.0 N @ 150 km/h (218.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	304.0 N @ 150 km/h (68.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,162.0 N @ 150 km/h (261.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	667.0 N @ 150 km/h (149.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	368 mm 14.488 in
Length, packed	2874 mm 113.15 in
Weight, gross	78.9 kg 173.945 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted

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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

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



