

24-port sector/multibeam antenna, 4x 694–960, 4x 1695-2690MHz 65° HPBW, 8x 1710-2690MHz 4x33° HPBW and 8x 2300-3800MHz, 90° HPBW 9x RET

- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces
- Includes 1x 4-Column Array for 2300-3800MHz and calibration port. Column spacing optimized to support Soft Split Beamforming

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 12
RF Connector Quantity, low band 4
RF Connector Quantity, total 24

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 (6)

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

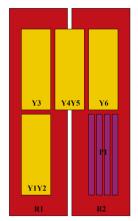
 Width
 579 mm | 22.795 in

 Depth
 212 mm | 8.346 in

 Length
 2688 mm | 105.827 in

Net Weight, antenna only 67 kg | 147.71 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxx4
Y5	1710-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxY5
Y6	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxY6
P1	2300-3800	17 - 24	9	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 | 1710 – 2690 MHz | 2300 – 3800 MHz | 694 – 960

 MHz

Polarization ±45°

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2,Y4,Y	5Y1,Y2,Y4,Y	5Y1,Y2,Y4,Y	5Y3,Y6	Y3,Y6	Y3,Y6	P1	P1
Frequency Band, MHz	694-79	0790-89	0890-96	01710-1920	0 1920-2180	2300-2690	1695-192	01920-218	02300-269	02300-269	03300-3800
RF Port	1-4	1-4	1-4	5-8,11-14	5-8,11-14	5-8,11-14	9,10,15,16	9,10,15,16	9,10,15,16	17-24	17-24
Gain, dBi	16.2	16.7	16.8	18.7	19.8	20.5	16.2	17.4	17.8	15.8	16.6
Gain at Mid Tilt, dBi	15.9	16.5	16.6	18.1	19.6	20.3	15.8	17.1	17.6	14.9	15.8
Beam Centers, Horizontal, degrees				±27	±27	±27					
Beamwidth, Horizontal, degrees	70	61	60	35	32	27	67	61	58	90	66
Beamwidth,	8.9	8	7.4	7.3	6.5	5.4	7.1	6.5	5.4	6	5.5 Page 3 of 10



Vertical, degrees											
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	20	19	17	18	20	15	16	17	11	14
Front-to- Back Ratio at 180°, dB	32	31	30	33	35	34	33	34	32	28	27
Coupling level, Amp, Antenna port to Cal port, dB										26	26
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	25	23	23
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25	25	25
Isolation, Co- polarization, dB										18	18
Isolation, Beam to Beam, dB				17	17	17					

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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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-143	-143
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	250	250	200	75	75

Electrical Specifications, BASTA

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Frequency Band, MHz	694-79	90790-8	90890-9	601710-192	20 1920-218	30 2300-269	00 1695–19	201920-21	802300-26	902300-26	903300-3800
Gain by all Beam Tilts, average, dBi	15.8	16.4	16.5	17.9	19.3	19.9	15.7	16.8	17.3	14.9	15.7
Beamwidth, Horizontal Tolerance, degrees	±6	±4	±4	±4	±3	±3	<u>+</u> 9	±5	±6	±20	±12
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.3	±0.5	±0.4	±0.4	±0.5	±0.5	±0.4	±0.6	±0.4
USLS, beampeak to 20° above beampeak, dB	16	16	17	15	17	14	14	15	12	11	12
Front-to- Back Total Power at 180° ± 30°, dB	25	25	24	28	29	28	25	29	27	22	22
CPR at Boresight, dB	21	22	22	16	21	21	18	23	20	14	16
CPR at Sector, dB	13	10	13				8	8	5	8	3
CPR at 10 dB				8	12	13					

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Horizontal Beamwidth, dB		_
Electrical Specifications,		
Broadcast 65°		
Frequency Band, MHz	2300-2690330	00-3800
Gain, dBi	17.6 16.	9
Beamwidth, Horizontal at 3 dB, degrees	65 65	
Beamwidth, Vertical, degrees	5.9 5.6	
Front-to- Back Total Power at 180° ± 30°, dB	25 23	
USLS (First Lobe), dB	12 14	
Electrical Specifications, Service		
Beam		
Frequency Band, MHz	2300-2690330	00-3800
Steered 0° Gain, dBi	20.4 21.	2
Steered 0° Beamwidth, Horizontal, degrees	26 18	
Steered 0° Front-to- Back Total Power at 180° ± 30°, dB	30 27	
Steered 0° Horizontal	12 11	

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Sidelobe, dB

Steered 30° Gain, dBi	19.6	19.4
Steered 30° Beamwidth, Horizontal, degrees	27	21
Steered 30° Front-to- Back Total Power at 180° ± 30°, dB	28	27

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-2690
Gain, dBi	19.3
Beamwidth, Horizontal, degrees	31
Front-to- Back Total Power at 180° ± 30°, dB	28
Horizontal Sidelobe, dB	15

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 764.0 N @ 150 km/h (171.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 328.0 N @ 150 km/h (73.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,220.0 N @ 150 km/h (274.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 774.0 N @ 150 km/h (174.0 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 681 mm | 26.811 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2827 mm | 111.299 in

 Weight, gross
 85.5 kg | 188.495 lb

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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.commscope.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

AgencyClassificationCHINA-ROHSBelow 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.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



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