

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

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 498 mm | 19.606 in

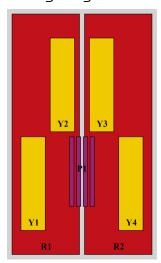
 Depth
 197 mm | 7.756 in

 Length
 2688 mm | 105.827 in

Net Weight, without mounting kit 52.5 kg | 115.743 lb

TDD Column Spacing 42 mm | 1.654 in

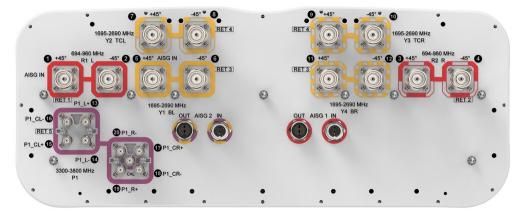
Array Layout



RF Connector	Array ID	Frequency (MHz)	RET (SRET)	AISG RET UID	
1 - 2	R1	694-960	1	CPxxxxxxxxxxxxxR1	
3 - 4	R2	694-960	2	CPxxxxxxxxxxxxR2	
5 - 6	Y1	1695-2690	3	CPxxxxxxxxxxxxxY1	
11 - 12	Y4	1695-2690	3	CPXXXXXXXXXXXXXX	
7 - 8	Y2	1695-2690	4	CPxxxxxxxxxxxxxY2	
9 - 10	Y3	1695-2690	4	CPXXXXXXXXXXXXXX	
13 - 20	P1	3300-3800	5	CPxxxxxxxxxxxxxP1	

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

Port Configuration



Electrical Specifications

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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, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1695-1920	0 1920-218	0 2300-250	0 2500-269	0 3300-3800
Gain by all Beam Tilts, average, dBi	15.7	15.6	16.2	16.7	17	17.4	17	15.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.4	±0.5	±0.6	±0.7	±0.9	±0.7

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Beamwidth, Horizontal Tolerance, degrees	±6.2	±2.8	±3.1	±9	±6.8	±5.5	±4.9	±18.6		
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.4	±0.5	±0.4	±0.3	±0.3	±0.6		
Front-to-Back Total Power at 180° ± 30°, dB	23	24	24	25	26	25	23	22		
CPR at Boresight, dB	23	21	20	15	17	20	20	17		
CPR at Sector, dB	13	10	14	10	9	9	8	8		
Electrical Specificati	ons, Br	oadcast	: 65°							
Frequency Band, MHz								3300-3800		
Gain, dBi								16.7		
Beamwidth, Horizontal, degrees								64		
Beamwidth, Vertical, degrees								6.1		
USLS (First Lobe), dB										
Electrical Specificati	Electrical Specifications, Service Beam									
Frequency Band, MHz								3300-3800		
Steered 0° Gain, dBi										
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 Specificati	ons, So	ft Split								
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)

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Wind Loading @ Velocity, lateral 360.0 N @ 150 km/h (80.9 lbf @ 150 km/h)

 $\textbf{Wind Loading @ Velocity, maximum} \hspace{1cm} 1,346.0 \text{ N} \textcircled{a} 150 \text{ km/h} (302.6 \text{ lbf} \textcircled{a} 150 \text{ km/h})$

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

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/Exempted



Weight, gross

Included Products

BSAMNT-4 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

73.5 kg | 162.04 lb

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 NoteSevere 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

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 1

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



