

20-port sector antenna, 4x 694-960 MHz (R1-R2), 4x 1427-2690 MHz (Y2-Y4) and 4x 1695-2690 (Y1-Y3) MHz 65° HPBW, 8x 2300-3800 MHz (P1), 90° HPBW, 7x RET

- Includes 1x 4-Column Array for 2300-3800MHz and calibration port. Column spacing optimized to support Soft Split Beamforming
- Q4 array uses M-LOC cluster connectors
- Seven internal RETs control the antenna arrays
- New aerodynamic endcaps for wind load optimization

General Specifications

Antenna Type Sector- and beamforming

Band Multiband
Calibration Connector Interface M-LOC
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 | 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 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

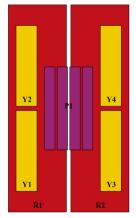
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2100 mm | 82.677 in

Net Weight, antenna only 40 kg | 88.185 lb

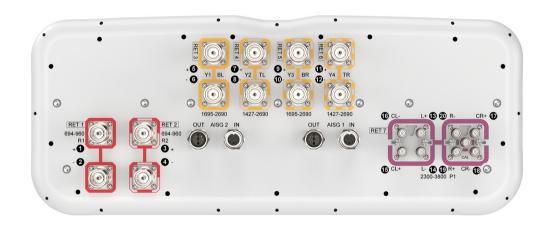
Array Layout



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	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxY3
Y4	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxx4
P1	2300-3800	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 | 2300 – 3800 MHz | 694 – 960

MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

R1,R2 R1,R2 R1,R2 Y2,Y4 Y2,Y4 Y2,Y4 Y1,Y3 Y1,Y3 P1 P1

Frequency Band, 694-790790-890890-9601427-15181695-22002300-26901695-22002300-26902300-26903300-3800

MHz

RF Port 1-4 1-4 1-4 7,8,11,12 7,8,11,12 5,6,9,10 5,6,9,10 13-20 13-20

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Beamwidth, Horizontal, degrees	65	61	61	64	56	57	61	58	95	66
Beamwidth, Vertical, degrees	10.7	9.5	8.7	9.9	7.8	6	8.6	6.9	5.8	5.5
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	16	15	17	17	20	14	19	15	14
Front-to-Back Ratio at 180°, dB	29	28	29	31	29	29	30	28	31	28
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	28	28	28	25	25	25	25	25	23	23
Isolation, Inter- band, dB	25	25	25	25	25	25	25	25	25	25
Isolation, Co- polarization, dB									20	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-140	-140
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	250	200	75	75

Electrical Specifications, BASTA

Frequency Band, MHz	694-79	90 790-89	90 890-90	601427-1	5181695-22	2002300-2	6901695-22	2002300-2	6902300 – 26	5903300-3800
Gain by all Beam Tilts, average, dBi	14.9	15.4	15.7	14.3	16	17.1	15.6	16.9	14.8	15.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.3	±0.6	±0.6	±0.3	±0.9	±0.4	±0.8	±0.8

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Beamwidth, Horizontal Tolerance, degrees	±6	±5	±4	±7	±4	±4	±9	±5	±12	±15
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.4	±0.5	±1	±0.6	±1.1	±0.6	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	19	16	15	14	16	16	14	17	11	11
Front-to-Back Total Power at 180° ± 30°, dB	21	22	23	24	24	24	25	23	23	23
CPR at Boresight, dB	18	18	18	18	20	16	16	17	15	13
CPR at Sector, dB	13	10	12	7	4	4	7	8	9	5

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-26	2300-26903300-3800		
Gain, dBi	17.5	17.1		
Beamwidth, Horizontal at 3 dB, degrees	65	65		
Beamwidth, Horizontal at 10 dB, degrees	117	108		
Beamwidth, Vertical, degrees	5.8	5.5		
Front-to-Back Total Power at 180° ± 30°, dB	28	25		
USLS (First Lobe), dB	15	14		

Electrical Specifications, Envelope

Pattern

Frequency Band, MHz	2300-26903300-3800			
Gain, dBi	20.4	21.2		
Beamwidth, Horizontal at 10 dB, degrees	126	121		
Beamwidth, Vertical	5.8	5.4		

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at 3 dB, degrees		
Front-to-Back Total Power at 180° ± 30°, dB	28	26
USLS (First Lobe), dB	16	16
Electrical Specifications, Service Beam		
Frequency Band, MHz	2300-26	903300-3800
Steered 0° Gain, dBi	20.4	21.4
Steered 0° Beamwidth, Horizontal, degrees	25	18
Steered 0° Front-to- Back Total Power at 180° ± 30°, dB	31	29
Steered 0° Horizontal Sidelobe, dB	13	13
Steered 30° Gain, dBi	20	18.9
Steered 30° Beamwidth, Horizontal, degrees	28	23
Steered 30° Front- to-Back Total Power at 180° ± 30°, dB	29	25
Electrical Specifications, Soft Split		
Frequency Band, MHz	2300-26	90
Gain, dBi	19.8	
Beamwidth, Horizontal, degrees	31	
Front-to-Back Total Power at 180° ± 30°, dB	29	
Horizontal Sidelobe, dB	19	
USLS (First Lobe), dB	17	

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Mechanical Specifications

 Wind Loading @ Velocity, frontal
 728.0 N @ 150 km/h (163.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 873.0 N @ 150 km/h (196.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 501.0 N @ 150 km/h (112.6 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
 2287 mm | 90.039 in

 Weight, gross
 54.3 kg | 119.711 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 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.

* 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

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliant



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