

32-port sector antenna, 4x 694–960, 4x 1427-1518, 4x 1695-2180 & 4x 2490-2690 MHz 65° HPBW; 8x 2300–2690 and 8x 3300-3800MHz, 90° HPBW, 8x RET

- Includes 2x Single Column X-Pol Arrays for 694-960MHz, suitable for 4x MIMO applications
- Includes 2x Single Column X-Pol Tri-plexed Arrays providing 4-Ports x 1427-1518MHz, 4-Ports x 1695-2180MHz and 4-Ports x 2490-2690MHz, suitable for 4x MIMO applications
- Includes 1x 4-Column X-Pol Array for 2300–2690 MHz and a separate 1x 4-Column X-Pol Array for 3300-3800MHz including a calibration port for each Array. Column spacing optimized to support Soft Split Beam-forming
- 8 Internal RET's are provided. All 1427-1518MHz (G1, G2) ports share a common RET. All 2490-2690MHz (Y1, Y2) ports share a common RET
- 4x M-LOC cluster connectors (comprising 16 RF ports + 2 calibration ports in total) are provided for the beam-forming arrays

General Specifications

Antenna Type Sector

Band Multiband

Calibration Connector Interface M-LOC

Calibration Connector Quantity 2

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

Radiator Material Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female | M-LOC

RF Connector Location Bottom

RF Connector Quantity, high band 28

RF Connector Quantity, low band 4

RF Connector Quantity, total 32

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

COMMSCOPE®

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 (6) | Low band (2)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

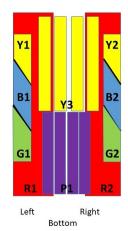
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

 Net Weight, without mounting kit
 52 kg | 114.64 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxXR2
G1	1427–1518	5-6	3	CPxxxxxxxxxxxxxxXG1
G2	1427-1518	7-8	3	CPxxxxxxxxxxxxxxG2
B1	1695–2180	9-10	4	CPxxxxxxxxxxxxxxB1
B2	1695–2180	11-12	5	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	13-14	6	CPxxxxxxxxxxxxxY1
Y2	2490-2690	15-16	0	CFXXXXXXXXXXXXXXXXX
Y3	2300-2690	17-24	7	CPxxxxxxxxxxxxxXY3
P1	3300-3800	25-32	8	CPxxxxxxxxxxxxxxxP1

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 1518 MHz | 1695 – 2180 MHz | 2300 – 2690 MHz | 2490

– 2690 MHz | 3300 – 3800 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	G1-G2	B1-B2	Y1-Y2	Y3	P1
Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695–218	0 2490-269	0 2300–269	0 3300-3800
Gain, dBi	15	15.2	15.5	15.4	16.9	17.7	14.9	16.1
Beamwidth, Horizontal, degrees	73	66	65	78	70	56	92	91
Beamwidth, Vertical, degrees	10.4	9.3	8.4	6.9	5.2	4.2	6.4	6.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	17	18	15	17	24	16	17
Front-to-Back Ratio at 180°, dB	33	33	31	29	31	32	32	30
Coupling level, Amp, Antenna port to Cal port, dB							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							9	9
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	25	25	25	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
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	300	250	250	200	150	75

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695-218	0 2490-269	0 2300–269	0 3300-3800
Gain by all Beam Tilts, average, dBi	14.6	15	15.2	15	16.4	17.3	14.5	15.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.4	±0.9	±0.6	±0.4	±0.6	±1
Gain by Beam Tilt, average, dBi	2° 14.5 7° 14.6 12° 14.6	2° 14.9 7° 15.1 12° 14.9	2° 15.2 7° 15.3 12° 15.0	2° 15.0 7° 14.9 12° 14.8	2° 16.2 7° 16.4 12° 16.3	2 ° 17.2 7 ° 17.4 12 ° 17.1	2° 14.4 7° 14.6 12° 14.1	2° 14.9 7° 15.3 12° 15.1
Beamwidth, Horizontal Tolerance, degrees	±5.2	±4.7	±3.4	±11.9	±8.2	±4.6	±14.5	±17.5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.6	±0.3	±0.5	±0.2	±0.4	±0.6
USLS, beampeak to 20° above beampeak, dB	16	17	16	15	16	17	14	16
Front-to-Back Total Power at 180° ± 30°, dB	21	21	21	20	25	24	24	23
CPR at Boresight, dB	20	22	21	17	19	16	16	16
CPR at Sector, dB	12	8	9	9	4	1	10	7

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-2690 3300-3800		
Gain, dBi	16.4	16.9	
Beamwidth, Horizontal, degrees	60	61	
Beamwidth, Vertical, degrees	6.4	6.5	

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USLS (First Lobe), dB	17	19
Electrical Specifications, Service Beam		
Frequency Band, MHz	2300-26	90 3300-3800
Steered 0° Gain, dBi	20	20.9
Steered 0° Beamwidth, Horizontal, degrees	26	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	33	32
Steered 0° Horizontal Sidelobe, dB	12	13
Steered 30° Gain, dBi	19.1	19.9
Steered 30° Beamwidth, Horizontal, degrees	28	27

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-269	90 3300–3800
Gain, dBi	19.5	19.6
Beamwidth, Horizontal, degrees	32	32
Front-to-Back Total Power at 180° ± 30°, dB	33	29
Horizontal Sidelobe, dB	19	15

Mechanical Specifications

Mechanical Lift Range	0'-12'
Wind Loading @ Velocity, frontal	803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	661.0 N @ 150 km/h (148.6 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	66.5 kg 146.607 lb

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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



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

Agency	Classification
CHINA-ROHS	Below maximum concentration value
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ROHS	Compliant
UK-ROHS	Compliant



