

16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 6x RET

- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- New endcap designs provide improved wind loading performance
- All internal RET actuators are connected in "Cascaded MRET" configuration

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 12
RF Connector Quantity, low band 4

RF Connector Quantity, total 16

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 Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

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Dimensions

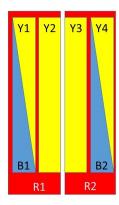
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2100 mm | 82.677 in

Net Weight, antenna only 42.3 kg | 93.255 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	CPxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CD-annanananananan P1
B2	1695-2180	7-8	3	CPxxxxxxxxxxxxxxB1
Y1	2490-2690	9-10	4	CPxxxxxxxxxxxxxY1
Y4	2490-2690	15-16	4	CPXXXXXXXXXXXXXXX
Y2	1427-2690	11-12	5	CPxxxxxxxxxxxxxXY2
Y3	1427-2690	13-14	6	CPxxxxxxxxxxxxxXY3

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

Left Right Bottom

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 960

MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	B1,B2	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	694-790	790-890	890-960	1695-2180	2490-2690	1427-1518	3 1695–218	0 2300-2690
RF Port	1-4	1-4	1-4	5-8	9,10,15,16	11-14	11-14	11-14
Gain, dBi	14.9	15.4	15.6	18.1	18.6	15.1	17	17.5
Beamwidth, Horizontal, degrees	71	65	62	64	60	66	62	57
Beamwidth, Vertical, degrees	10.4	9.2	8.3	5.2	4.1	9.3	7.3	5.6
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	16	17	24	20	19	22
Front-to-Back Ratio at 180°, dB	32	33	31	33	29	33	35	32
Isolation, Cross Polarization, dB	28	28	28	28	28	26	27	26
Isolation, Inter-band, dB	28	28	28	28	28	27	27	28
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	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	150	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-218	0 2490-269	0 1427-151	8 1695–218	0 2300-2690
Gain by all Beam Tilts, average, dBi	14.7	15.1	15.3	17.6	18.2	14.7	16.4	17.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.9	±0.4	±0.5	±0.8	±0.6
Beamwidth, Horizontal Tolerance, degrees	±7	±4	±4	±7	±3	±6	±6	±6
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.5	±0.5	±0.2	±0.6	±0.9	±0.5

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USLS, beampeak to 20° above beampeak, dB	15	16	16	16	17	16	18	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	20	26	22	22	28	27
CPR at Boresight, dB	21	21	18	20	20	18	17	17
CPR at Sector, dB	15	10	10	7	6	7	8	4

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.68 \text{ m}^2 \mid 7.319 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.21 \text{ m}^2 \mid 2.26 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 720.0 N @ 150 km/h (161.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 220.0 N @ 150 km/h (49.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 864.0 N @ 150 km/h (194.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 496.0 N @ 150 km/h (111.5 lbf @ 150 km/h)

Wind Speed, maximum 288 km/h (179 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
 56.8 kg | 125.222 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

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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 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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