

16-port sector antenna, 4x 694–960, 4x 1427–2690 MHz, 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 5x RET

- Combination of Quad Band antenna and 3.5GHz 8T8R beam forming antenna
- Internal SBT RET support via Calibration Port of 3.5GHz array
- Beam-forming weighting table available upon request
- Optimized for Software Defined Split Six Sector applications on 3.5GHz
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

Antenna Type Sector

Band Multiband

Calibration Connector Interface N Female

Calibration Connector Quantity

Color Light Gray (RAL 7035)

Grounding Type RF 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

Radiator Material Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high 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

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Internal RET High band (3) | 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

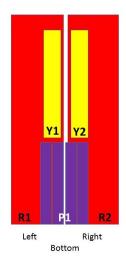
Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 47 kg | 103.617 lb

TDD Column Spacing 42 mm | 1.654 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	695-960	3-4	2	CPxxxxxxxxxxxxxxR2
Y1	1427-2690	5-6	3	CPxxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxxY2
P1	3300-3800	9-16	5	CPxxxxxxxxxxxxxxxP1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 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	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2	P1
Frequency Band, MHz	694-790	790-862	880-960	1427-151	8 1695–192	0 1920–218	0 2300–269	0 3300-3800
Gain, dBi	15.9	16.3	16.8	15.3	17.1	17.6	17.7	16.5
Beamwidth, Horizontal, degrees	70	67	63	68	57	58	62	86
Beamwidth, Vertical, degrees	8.4	7.6	6.9	8.7	7.2	6.5	5.3	6.5
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	17	19	17	18	17	17	16
Front-to-Back Ratio at 180°, dB	31	30	32	33	35	36	33	30
Coupling level, Amp, Antenna port to Cal port, dB								26
Coupling level, max Amp Δ ,								±2

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Antenna port to Cal port, dB								
Coupler, max Amp Δ , Antenna port to Cal port, dB								1.8
Coupler, max Phase Δ, Antenna port to Cal port, degrees								14
Isolation, Cross Polarization, dB	28	28	28	27	28	28	28	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28	19
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	250	250	250	200	200	200	150	75
Electrical Specificati	ons, BA	STA						
Frequency Band, MHz	694-790	790-862	880-960	1427-151	8 1695-192	20 1920-218	30 2300-269	90 3300-3800
Gain by all Beam Tilts, average, dBi	15.6	16	16.4	14.9	16.4	17.1	17.1	15.5
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.5	±0.8	±0.8	±0.5	±0.8	±1
Gain by Beam Tilt, average, dBi	2° 15.5 7° 15.7 12° 15.4	2° 15.9 7° 16.1 12° 15.8	2° 16.4 7° 16.6 12° 16.1	2° 14.6 7° 14.9 12° 14.9	2° 16.1 7° 16.5 12° 16.4	2° 16.7 7° 17.3 12° 17.1	2° 16.4 7° 16.3 12° 17.0	2° 15.2 7° 15.6 12° 15.5
Beamwidth, Horizontal Tolerance, degrees	±4.5	±4.0	±5.4	±3.3	±7.5	±3.7	±8.3	
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4	±0.7	±0.6	±0.6	±0.5	±0.6
USLS, beampeak to 20° above beampeak, dB	14	15	16	14	17	15	14	14
Front-to-Back Total Power at 180° ± 30°, dB	20	20	22	25	29	29	27	21
CPR at Boresight, dB	25	24	24	16	19	20	19	17
CPR at Sector, dB	10	7	9	7	8	6	7	8
Electrical Specifications, Broadcast 65°								
Frequency Band, MHz								3300-3800
Gain, dBi								16.5
Beamwidth, Horizontal, degrees								62
Beamwidth, Vertical, degrees								6.5
USLS (First Lobe), dB								16

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Electrical Specifications, Service Beam

Frequency Band, MHz	3300-3800
Steered 0° Gain, dBi	20.9
Steered 0° Beamwidth, Horizontal, degrees	24
Steered 0° Horizontal Sidelobe, dB	13
Steered 30° Gain, dBi	19.5
Steered 30° Beamwidth, Horizontal, degrees	31

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.8
Beamwidth, Horizontal, degrees	31
Horizontal Sidelobe, dB	18

Mechanical Specifications

Mechanical Tilt Range	0°-10°
Wind Loading @ Velocity, frontal	1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	880.0 N @ 150 km/h (197.8 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
Weight, gross	68 kg 149.914 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

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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.

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

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







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 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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