

16-port multibeam antenna, 8x 698–896 MHz, 2x 2-beam 33° HPBW and 8x 1695–2400 MHz, 2x 2-beam 33° HPBW, 4x RET

- Provides 4T4R capability in low and mid bands
- Full spectrum operation for Band 14, AWS, PCS and WCS bands
- Twin beam patterns are optimized for minimum beam crossover providing for improved LTE data throughput
- Excellent Front-to-Back and SPR performance

General Specifications

Antenna Type Multibeam

Band Multiband

Grounding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 8
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 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (2) | Low band (2)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Multi-RET)



Dimensions

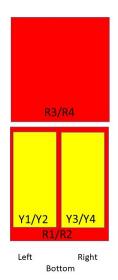
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 2437 mm | 95.945 in

 Net Weight, without mounting kit
 66.7 kg | 147.048 lb

Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	CD-annanananan MANA1
R3	698-896	5-6	1	CPxxxxxxxxxxxxxXMM1
R2	698-896	3-4	2	CD-oanaanaanaan AAA2
R4	698-896	7-8		CPxxxxxxxxxxxxxXMM2
Y1	1695-2400	9-10	2	CD-oanaanaanaanaan ANA2
Y3	1695-2400	13-14	3	CPxxxxxxxxxxxxxXMM3
Y2	1695-2400	11-12	4	CPxxxxxxxxxxxxXMM4
Y4	1695-2400	15-16	4	CPXXXXXXXXXXXXXXXIVIIVI4

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,500 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	698-806	824-896	1695-1880	1850-1990	1920-2200	2300-2400
Gain, dBi	14.8	16	17.7	18.3	19.1	19.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	43	36	35	33	32	28
Beamwidth, Vertical, degrees	18.8	16.7	7.7	7.3	7	6.4
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
Horizontal Sidelobe, dB	13	12	16	18	19	16
USLS (First Lobe), dB	17	18	18	21	22	20
Front-to-Back Ratio at 180°, dB	29	29	33	34	35	32
Isolation, Cross Polarization,	25	25	25	25	25	25

Page 3 of 7



dB						
Isolation, Inter-band, dB	25	25	25	25	25	25
VSWR Return loss, dB	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	200	200	200	200	200	150

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	824-896	1695-1880	1850-1990	1920-2200	2300-2400
Gain by all Beam Tilts, average, dBi	14.3	15.5	17	17.9	18.4	18.4
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.8	±0.9	±0.4	±0.7	±1.3
Gain by Beam Tilt, average, dBi	2° 14.4 9° 14.3 16° 14.2	2° 15.6 9° 15.5 16° 15.4	2° 16.9 7° 17.1 12° 17.0	2° 17.8 7° 18.0 12° 17.9	2° 18.3 7° 18.5 12° 18.2	2° 18.5 7° 18.5 12° 18.1
Beamwidth, Horizontal Tolerance, degrees	±2.4	±3.6	±1	±1.5	±1.9	±1
Beamwidth, Vertical Tolerance, degrees	±1.2	±0.8	±0.3	±0.3	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	16	23	13	15	17	15
Front-to-Back Total Power at 180° ± 30°, dB	24	21	26	27	28	26
CPR at Boresight, dB	18	16	16	18	18	15
CPR at 10 dB Horizontal Beamwidth, dB	6	4	8	12	12	10

Mechanical Specifications

Effective Projective Area (EPA), frontal

0.99 m² | 10.656 ft²

Effective Projective Area (EPA), lateral

0.33 m² | 3.552 ft²

Mechanical Tilt Range

0°-10°

 Wind Loading @ Velocity, frontal
 1,055.0 N @ 150 km/h (237.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,433.0 N @ 150 km/h (322.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

Packaging and Weights



 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 93.4 kg | 205.912 lb

Regulatory Compliance/Certifications

Agency	Classification
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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



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 1

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



