

16-port, low band diplexed antenna, $2 \times 698-728$ MHz, $2 \times 758-798$ MHz, $2 \times 698-798$ MHz, $2 \times 824-894$ MHz and $8 \times 1695-2360$ MHz, 65° HPBW, $6 \times 824-894$ MHz and $8 \times 1695-2360$ MHz,

- Features broadband Low Band (698-894 MHz) and Mid Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for 700 and 850 MHz, AWS, PCS and WCS applications
- Both Low Band arrays are diplexed for independent tilt, with one array providing two ports of B29 and two ports of B14 and the other array providing two ports of B14 and two ports of B5
- Excellent wind loading characteristics
- Optimized SPR performance across all operating bands

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

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, mid band

RF Connector Quantity, low band

RF Connector Quantity, total

Bottom

8

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 (4) | Mid band (2)

Power Consumption, active state, maximum 8 W

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

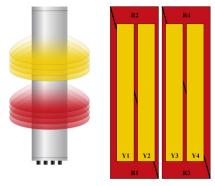
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 57.2 kg | 126.104 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (MRET)	AISG No.	AISG RET UID		
R1	698-728	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxXMM.1		
R2	758-798	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxMM.2		
R3	698-798	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxMM.3		
R4	824-894	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxMM		
Y1	1695-2360	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxMM.5		
Y2	1695-2360	11 - 12	65°	5	AISGI	CPXXXXXXXXXXXIVIIVI.5		
Y3	1695-2360	13 - 14	65°	6 11664		6 AISG1 CPxxxxxxxx		CPxxxxxxxxxxxMM.6
Y4	1695-2360	15 - 16	65°	°	MIDGI	CPXXXXXXXXXXXXXIVIIVI.0		

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 798 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 1,280 W @ 50 °C

Electrical Specifications

	R1-R3	R4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-6	7,8	9-16	9-16	9-16	9-16
Gain, dBi	15.1	15.2	17.6	18.1	18.7	18.9
Beamwidth, Horizontal, degrees	58	61	68	67	62	58
Beamwidth, Vertical, degrees	9.3	8.1	5.7	5.3	5	4.5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	17	17	18	17	19	21
Front-to-Back Ratio at 180°, dB	32	30	35	34	34	36
Front-to-Back Total Power at	23	24	27	27	26	27

Page 3 of 8



180° ± 30°, dB						
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	150	150	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	14.8	14.9	17.1	17.8	18.3	18.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.6	±0.6	±0.4
Beamwidth, Horizontal Tolerance, degrees	±5	±6	±8	±8	±7	±4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	17	16	16	17	18	17
CPR at Boresight, dB	20	20	23	25	25	20
CPR at Sector, dB	10	10	8	8	6	8

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 865.0 N @ 150 km/h (194.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,037.0 N @ 150 km/h (233.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 595.0 N @ 150 km/h (133.8 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
 2685 mm | 105.709 in

 Weight, gross
 77.2 kg | 170.197 lb

Regulatory Compliance/Certifications

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Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Included Products

BSAMNT-3 – 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-M – 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-3



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, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

Page 6 of 8







BSAMNT-M



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, net4.5 kg | 9.921 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



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