

6 ft, 16-port, low band diplexed antenna, $4 \times 698-798$ MHz, $4 \times 824-894$ MHz and $8 \times 1695-2360$ MHz, 65° HPBW, $6 \times RET$

- Excellent wind loading characteristics
- Features broadband Low Band (698-894 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for 700 and 850 MHz, AWS, PCS and WCS applications
- The Low Band array is diplexed, providing independent tilt for the 700 and 850 MHz bands for 4T4R (4X MIMO) capability allowing the antenna to be used with 700 MHz and 850 MHz radios simultaneously
- 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 Bottom

RF Connector Quantity, high band 0
RF Connector Quantity, mid 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 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET Low band (2) | Mid band (4)



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Power Consumption, active state, maximum 8 W

Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

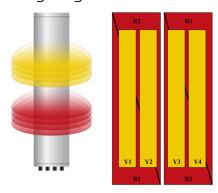
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1828 mm | 71.969 in

Net Weight, antenna only 43.6 kg | 96.121 lb

Array Layout



Array ID Frequency (MHz)		RF Connector	RET (MRET)	AISG No.	AISG RET UID	
R1	698-798	1 - 2	1	NECA	CD	
R3	698-798	5 - 6		AISG1	CPxxxxxxxxxxxMM.1	
R2	824-894	3 - 4	2 4/554		60	
R4	824-894	7 - 8	2	AISG1	CPxxxxxxxxxxxMM.2	
Y1	1695-2360	9 - 10	3	AISG1	CPxxxxxxxxxxxxMM.3	
Y2	1695-2360	11 - 12	4	AISG1	CPxxxxxxxxxxxXMM.4	
Y3	1695-2360	13 - 14	5	AISG1	CPxxxxxxxxxxxxMM.5	
Y4	1695-2360	15 - 16	6	AISG1	CPxxxxxxxxxxxXMM.6	

(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 $^{\circ}\mathrm{C}$

Electrical Specifications

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Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	13.4	14.1	16.3	16.9	17.5	17.9
Beamwidth, Horizontal, degrees	61	59	69	67	62	61
Beamwidth, Vertical, degrees	11.7	10.5	6.9	6.4	6.1	5.5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	18	17	18	19	20	18
Front-to-Back Ratio at 180°, dB	30	27	33	33	33	35
Front-to-Back Total Power at 180° ± 30°, dB	22	22	26	25	24	27
CPR at Boresight, dB	20	19	21	22	23	21
CPR at Sector, dB	12	10	7	6	5	6

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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,	150	150	250	250	250	200

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.58 \text{ m}^2 \mid 6.243 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.18 \text{ m}^2 \mid 1.938 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 622.0 N @ 150 km/h (139.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 428.0 N @ 150 km/h (96.2 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
 2015 mm | 79.331 in

 Weight, gross
 57.4 kg | 126.545 lb

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



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.

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* 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
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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