

6 ft, 16-port, low band diplexed antenna,  $4 \times 698-798$  MHz,  $4 \times 824-894$  MHz and  $8 \times 1695-2360$  MHz,  $65^{\circ}$  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 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, 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)

Power Consumption, active state, maximum 8 W

COMMSC PE°

Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

**Dimensions** 

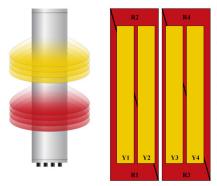
**Width** 498 mm | 19.606 in

**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	AISG1	CD		
R3	698-798	5 - 6			CPxxxxxxxxxxxXMM.1		
R2	824-894	3 - 4	,	AISG1	60		
R4	824-894	7 - 8	2		CPxxxxxxxxxxxMM.2		
Y1	1695-2360	9 - 10	3	AISG1	CPxxxxxxxxxxxMM.3		
Y2	1695-2360	11 - 12	4	AISG1	CPxxxxxxxxxxxMM.4		
Y3	1695-2360	13 - 14	5	AISG1	CPxxxxxxxxxxxMM.5		
Y4	1695-2360	15 - 16	6	AISG1	CPxxxxxxxxxxxMM.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 °C

## **Electrical Specifications**

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
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	13.4	14	16.1	16.7	17.2	17.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.6	±0.5	±0.6	±0.4
Beamwidth, Horizontal Tolerance, degrees	±6.6	±6.1	±7.4	±9.2	±5.1	±5
Beamwidth, Vertical	±0.7	±0.4	±0.4	±0.2	±0.4	±0.2

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Tolerance, degrees

**USLS, beampeak to 20° above** 18 17 12 14 14 14

beampeak, dB

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

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



#### 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

**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





