

16-port, low band diplexed antenna, 4x 698-728 MHz, 4x758-798 MHz and 8x 1695-2360 MHz,  $65^{\circ}$  HPBW, 6x RET

- Features broadband Low Band (698-798 MHz) and Mid Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for B29 and B14, AWS, PCS and WCS applications
- Both Low Band arrays are diplexed to provide independent tilt for B29 and B14
- Excellent wind loading characteristics
- 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 WPower Consumption, idle state, maximum 1 W

**Protocol** 3GPP/AISG 2.0 (Multi-RET)

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#### Dimensions

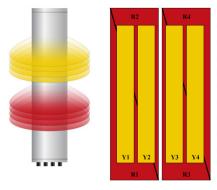
**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 1499 mm | 59.016 in

Net Weight, antenna only 37.4 kg | 82.453 lb

# Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID	
R1	698-728	1 - 2	1	AISG1	CD	
R3	698-728	5 - 6	I AISGI		CPxxxxxxxxxxxMM.1	
R2	758-798	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2	
R4	758-798	7 - 8	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	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

Polarization ±45°

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

# **Electrical Specifications**

	R1-R3	R2-R4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-728	758-798	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1,2,5,6	3,4,7,8	9,10,11,12,13,14,15,1	6 9,10,11,12,13,14,15,1	6 9,10,11,12,13,14,15,1	6 9,10,11,12,13,14,15,16
Gain, dBi	12.3	12.8	16	16.8	17.5	18.2
Beamwidth, Horizontal, degrees	77	69	72	69	63	58
Beamwidth, Vertical, degrees	17.4	16	7.5	7	6.6	5.9
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	15	17	18	20
Front-to-Back Ratio at 180°, dB	31	30	33	35	36	36
Front-to-Back Total Power at 180° ± 30°, dB	22	22	25	25	27	29
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

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.47 m<sup>2</sup> | 5.059 ft<sup>2</sup>

**COMMSCOPE®** 

**Effective Projective Area (EPA), lateral** 0.14 m<sup>2</sup> | 1.507 ft<sup>2</sup>

 Wind Loading @ Velocity, frontal
 498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 342.0 N @ 150 km/h (76.9 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
 1686 mm | 66.378 in

 Weight, gross
 50.4 kg | 111.113 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

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

