

12-port sector antenna, 4x 698-894 and 8x 1695-2360 MHz, 65° HPBW, 6x RET.

- 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 when used with Dual Band radios
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

### 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, high band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

Input Voltage 10-30 Vdc

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

Power Consumption, active state, maximum 8 W Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

**COMMSCOPE®** 

#### **Dimensions**

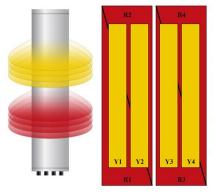
**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 1499 mm | 59.016 in

Net Weight, antenna only 39.1 kg | 86.201 lb

# Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID		
R1	698-798	1 - 2		11554			
R3	698-798	3 - 4	1	AISG1	CPxxxxxxxxxxxxMM.1		
R2	824-894	1 - 2	2	AICC1	60		
R4	824-894	3 - 4		AISG1	CPxxxxxxxxxxxMM.2		
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3		
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxxMM.4		
Y3	1695-2360	9 - 10	5	AISG1	CPxxxxxxxxxxxxMM.5		
Y4	1695-2360	11 - 12	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** 900 W @ 50 °C

# **Electrical Specifications**

	R1,R3	R2,R4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	12.5	12.9	16.3	17.1	17.6	18.2
Beamwidth, Horizontal, degrees	75	67	72	69	64	59
Beamwidth, Vertical, degrees	16.8	14.5	7.4	7	6.6	5.9
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	19	15	18	19	23
Front-to-Back Ratio at 180°, dB	28	27	32	34	35	35
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   14.5	1.5   14.5	1.5   14.5	1.5   14.5	1.5   14.5	1.5   14.5
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	12.2	12.5	15.6	16.5	17.1	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.8	±0.7	±0.7	±0.6
Beamwidth, Horizontal Tolerance, degrees	±6.8	±3.8	±7.2	±9.4	±6.3	±3.5
Beamwidth, Vertical Tolerance, degrees	±1.2	±1.1	±0.4	±0.3	±0.4	±0.2
USLS, beampeak to 20° above	22	17	12	15	15	14

Page 3 of 5



beampeak, dB						
Front-to-Back Total Power at 180° ± 30°, dB	21	21	26	26	27	28
CPR at Boresight, dB	20	23	17	19	19	19
CPR at Sector, dB	15	9	7	7	6	5

### Mechanical Specifications

 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
 52.8 kg | 116.404 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 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



