

16-port sector antenna, 4x 698–896, 8x 1695–2360 and 4x 3550- 3700 MHz, 45° HPBW, 3x RETs and 3x SBTs.

- Features broadband Low Band (698-896 MHz), Mid Band (1695-2360 MHz) and High Band (3550-3700 MHz) arrays for 4T4R (4X MIMO) capability for bands 5, 13, 25, 66 and 48. Also covers bands 12, 14, 29, and 30
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Non-stacked mid band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs
- Array configuration provides capability for 4T4R (4X MIMO) on Low Band, dual 4T4R (4X MIMO) on Mid Band and 4T4R (4X MIMO) on High Band
- 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 MaterialAluminumRF Connector LocationBottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
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** 3 female | 3 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 5 | Port 7

**COMMSCOPE®** 

Internal RET Low band (1) | Mid band (2)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

**Protocol** 3GPP/AISG 2.0

**Dimensions** 

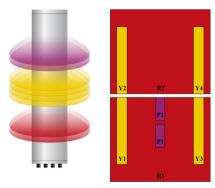
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1848 mm | 72.756 in

 Net Weight, antenna only
 37.5 kg | 82.673 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	698-896	1 - 2	1		CD		
R2	698-896	3 - 4	1 AISG1		CPxxxxxxxxxxxxxR1		
Y1	1695-2360	5 - 6	2	AICC3	CD		
Y3	1695-2360	9 - 10	2	AISG2	CPxxxxxxxxxxxxxY1		
Y2	1695-2360	7 - 8	3 AISG	NCCO	CPxxxxxxxxxxxxxxY2		
Y4	1695-2360	11 - 12		AISG3			
P1	3550-3700	13 - 14		NA NA			
P2	3550-3700	15 - 16	N/A		N/A		

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

## Port Configuration



# **Electrical Specifications**



**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 3550 – 3700 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 1,600 W @ 50 °C

## **Electrical Specifications**

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1,P2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
RF Port	1-4	1-4	5-12	5-12	5-12	5-12	13-16
Gain, dBi	14.1	14.8	16.7	17.1	17.4	17.9	15.1
Beamwidth, Horizontal, degrees	47	42	43	41	40	38	43
Beamwidth, Vertical, degrees	25	22	10.5	9.7	9.2	8.4	15
Beam Tilt, degrees	2-18	2-18	0-10	0-10	0-10	0-10	8
USLS (First Lobe), dB	15	19	16	17	16	19	15
Front-to-Back Ratio at 180°, dB	32	32	33	35	34	30	37
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	100

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain by all Beam Tilts, average, dBi	13.7	14.5	16.1	16.7	17.1	17.5	14.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.8	±0.4	±0.6	±0.4	±0.4
Front-to-Back Total Power at 180° ± 30°, dB	23	24	24	26	26	25	30
CPR at Boresight, dB	19	22	15	18	18	22	15

## Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 222.0 N @ 150 km/h (49.9 lbf @ 150 km/h)

Page 3 of 7



**Wind Loading @ Velocity, maximum** 1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)

**Wind Loading @ Velocity, rear** 946.0 N @ 150 km/h (212.7 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

#### Packaging and Weights

 Width, packed
 526 mm | 20.709 in

 Depth, packed
 283 mm | 11.142 in

 Length, packed
 2015 mm | 79.331 in

 Weight, gross
 55.4 kg | 122.136 lb

# Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



#### 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

**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







# **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



