

12-Port antenna, 4 x 617-894 MHz, 8 x 1695-2690 MHz, 65° HPBW, 3 x RET

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2690 MHz

#### 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 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

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

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 (Single RET)

**Dimensions** 

**COMMSCOPE®** 

**Width** 640 mm | 25.197 in

**Depth** 235 mm | 9.252 in

**Length** 1828 mm | 71.969 in

Net Weight, antenna only 48.5 kg | 106.924 lb

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxxR1		
R2	617-894	3 - 4					
Y1	1695-2690	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxY1		
Y2	1695-2690	7 - 8		AISGT	CPXXXXXXXXXXXXXX		
Y3	1695-2690	9 - 10	3	AISG1	CPxxxxxxxxxxxxxx		
Y4	1695-2690	11 - 12	3				

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

## Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 617 – 894 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

### **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y	4Y1,Y2,Y3,Y4
Frequency Band, MHz	617-698	698-806	806-894	1695-188	0 1850-1990	1920-2200	2300-2500	2500-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Gain, dBi	14.5	14.8	15.7	18.2	18.5	18.8	19.2	19.7
Beamwidth, Horizontal, degrees	68	64	58	62	62	63	55	51
Beamwidth, Vertical, degrees	12.9	11.7	10.5	5	4.8	4.5	4	3.7
Beam Tilt, degrees	2-12	2-12	2-12	2-9	2-9	2-9	2-9	2-9
USLS (First Lobe), dB	16	17	15	15	16	18	17	17
Front-to-Back Ratio at 180°, dB	30	33	33	32	32	32	31	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	14.1	14.5	15.1	17.7	18.2	18.4	18.8	19.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±0.6	±0.5	±0.6	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±5	±4	±4	±4	±6	±6	±7	±5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.7	±0.3	±0.2	±0.3	±0.3	±0.2
Front-to-Back Total Power at 180° ± 30°, dB	22	24	23	26	26	25	25	24
CPR at Boresight, dB	17	17	16	20	25	21	22	19

Page 3 of 5



**CPR at Sector, dB** 10 8 8 9 9 6 6 6

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 446.0 N @ 150 km/h (100.3 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

#### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 64.2 kg | 141.537 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



