

# 8-port sector antenna, 4x 694-960 and 4x 1695-2690 MHz, $65^{\circ}$ HPBW, 4x RET

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- All Internal RET actuators are connected in "Cascaded SRET" configuration

#### General Specifications

Antenna Type Sector

Band Multiband

**Grounding Type** RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

8 W

3GPP/AISG 2.0 (Single RET)

measurements described in white paper WP-112534-EN

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 4

RF Connector Quantity, low band 4
RF Connector Quantity, total 8

#### 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 High band (2) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum

**Dimensions** 

**Protocol** 

**COMMSCOPE®** 

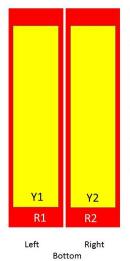
**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 2688 mm | 105.827 in

Net Weight, without mounting kit 43.6 kg | 96.121 lb

# Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxY2

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

Port Configuration



# **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

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

# **Electrical Specifications**

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Frequency Band, MHz	694-790	790-890	890-960	1695-188	0 1850-199	0 1920-218	0 2300-250	0 2500-2690
Gain, dBi	15.7	16.4	16.9	18.5	18.9	19.1	19.2	18.8
Beamwidth, Horizontal, degrees	70	67	62	59	59	61	64	70
Beamwidth, Vertical, degrees	8.2	7.4	6.9	5.4	5.1	4.8	4.2	4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	12	16	19	22	23	22	21	19
Front-to-Back Ratio at 180°, dB	32	32	32	36	37	37	35	31
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28	28	28
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port,	300	300	300	250	250	250	250	200
maximum, watts								

#### Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-1880 1850-1990 1920-2180 2300-2500 2500-2690					
Gain by all Beam Tilts, average, dBi	15.6	16.1	16.7	18	18.7	18.8	18.9	18.5	
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.4	±0.8	±0.4	±0.4	±0.5	±0.5	
Gain by Beam Tilt, average, dBi	2° 15.5 7° 15.7 12° 15.5	2° 16.1 7° 16.2 12° 15.9	2° 16.7 7° 16.8 12° 16.4	2° 17.9 7° 18.2 12° 17.9	2° 18.5 7° 18.8 12° 18.5	2° 18.6 7° 19.0 12° 18.7	2° 18.7 7° 19.0 12° 18.7	2° 18.1 7° 18.6 12° 18.4	
Beamwidth, Horizontal Tolerance, degrees	±4.9	±2.5	±4.1	±4.3	±2.3	±3	±6.5	±4.8	
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.6	±0.4	±0.3	±0.2	±0.3	±0.2	±0.1	
USLS, beampeak to 20° above beampeak, dB	12	15	17	15	18	18	17	15	
Front-to-Back Total Power at 180° ± 30°, dB	21	21	23	29	32	29	27	26	
CPR at Boresight, dB	24	24	25	20	21	21	17	15	
CPR at Sector, dB	9	7	8	9	9	8	7	6	

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 608 mm | 23.937 in

 Depth, packed
 352 mm | 13.858 in

 Length, packed
 2880 mm | 113.386 in

 Weight, gross
 67.1 kg | 147.93 lb

#### Regulatory Compliance/Certifications

Agency Classification

**COMMSCOPE®** 

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-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.

BSAMNT-M4 – 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-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





# BSAMNT-M4



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, net4.6 kg | 10.141 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow 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



