

#### 4-port sector antenna, 4x 694-960 MHz, 85° HPBW, 2x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Antenna shape optimized for wind load reduction

#### General Specifications

Antenna Type Sector

**Band** Single band

Color Light Gray (RAL 7035)

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

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location** Bottom

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

Kr Connector Quantity, total

#### 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 (2)

Power Consumption, active state, maximum  $10~\mathrm{W}$ Power Consumption, idle state, maximum  $2~\mathrm{W}$ 

Protocol 3GPP/AISG 2.0 (Single RET)

#### **Dimensions**

 Width
 430 mm | 16.929 in

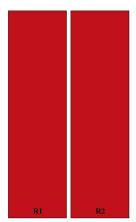
 Depth
 197 mm | 7.756 in

 Length
 2769 mm | 109.016 in

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### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2

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

## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 694 – 960 MHz

Polarization ±45°

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

### **Electrical Specifications**

Frequency Band, MHz	698-806	790-862	824-894	880-960
Gain, dBi	15.6	16.2	16.4	16.7
Beamwidth, Horizontal, degrees	89	81	81	77
Beamwidth, Vertical, degrees	8.3	7.7	7.4	7
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	19	18
Front-to-Back Ratio at 180°, dB	30	33	33	28
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27
VSWR   Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz 698-806 790-862 824-894 880-960

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Gain by all Beam Tilts, average, dBi	15.3	15.9	16.2	16.4
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.4	±0.3
Beamwidth, Horizontal Tolerance, degrees	±10.1	±4.4	±3.5	±5.5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	14	14	16	16
Front-to-Back Total Power at 180° ± 30°, dB	23	24	25	24
CPR at Boresight, dB	25	26	26	25
CPR at Sector, dB	13	12	13	13

## Mechanical Specifications

Wind Loading @ Velocity, frontal	680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,023.0 N @ 150 km/h (230.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	530 mm   20.866 in
Depth, packed	356 mm   14.016 in
Length, packed	2897 mm   114.055 in
Weight, gross	54.7 kg   120.593 lb
Weight, net	34.7 kg   76.5 lb

## 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





#### 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

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



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