

12-port sector antenna, 4x 698-896 and 8x 1695-2360 MHz, 65° HPBW, 3x RET, 3x SBT.

## 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

RE 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

**RET Interface, quantity** 3 female | 3 male

Input Voltage 10-30 Vdc

Internal Bias TeePort 1 | Port 5 | Port 9Internal RETHigh band (2) | Low band (1)

Power Consumption, active state, maximum 13 W Power Consumption, idle state, maximum 2 W

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

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**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 2438 mm | 95.984 in

Net Weight, antenna only 50 kg | 110.231 lb

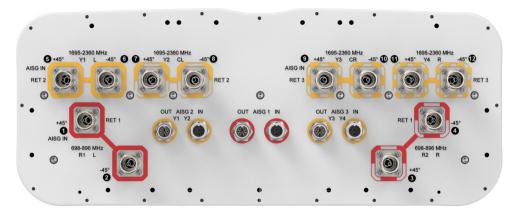
# Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID	
R1	698-896	1 - 2		CPxxxxxxxxxxxxxxXR1	
R2	698-896	3 - 4		CPXXXXXXXXXXXXXXX	
Y1	1695-2360	5 - 6	2	CPxxxxxxxxxxxxxxY1	
Y2	1695-2360	7 - 8		CPXXXXXXXXXXXXXX	
Y3	1695-2360	9 - 10	_	6B	
Y4	1695-2360	11 - 12	3	CPxxxxxxxxxxxxxxXY3	

(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 – 896 MHz

Polarization ±45°

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

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Electrical Specifications
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Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	15.4	16.2	17.3	17.8	18.4	18.5
Beamwidth, Horizontal, degrees	72	65	69	69	64	59
Beamwidth, Vertical, degrees	9.5	8.3	5.6	5.2	5	4.6
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	15	18	19	21	21	23
Front-to-Back Ratio at 180°, dB	31	31	34	34	35	36
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   14.0	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
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200

# Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.1	15.9	16.8	17.3	17.9	18
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.6	±0.7	±0.7	±0.6
Beamwidth, Horizontal Tolerance, degrees	±8.2	±2.2	±8.3	±9.4	±6.6	±5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	15	17	17	17	18	16
Front-to-Back Total Power at 180° ± 30°, dB	23	23	28	27	28	28
CPR at Boresight, dB	20	23	20	22	20	19
CPR at Sector, dB	11	10	9	8	8	6

# Mechanical Specifications

 Wind Loading @ Velocity, frontal
 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 331.0 N @ 150 km/h (74.4 lbf @ 150 km/h)

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**Wind Loading @ Velocity, maximum** 1,235.0 N @ 150 km/h (277.6 lbf @ 150 km/h)

 $\begin{tabular}{ll} \textbf{Wind Loading @ Velocity, rear} \\ \begin{tabular}{ll} 785.0 \ N @ 150 \ km/h \ (176.5 \ lbf @ 150 \ km/h) \\ \end{tabular}$ 

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
 2685 mm | 105.709 in

 Weight, gross
 69.9 kg | 154.103 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-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	$\label{thm:constraint} \mbox{Designed, manufactured and/or distributed under this quality management system}$
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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# **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

## Regulatory Compliance/Certifications

# AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliant





