

10-port sector antenna, 2x 698–896, 4x 1695–2200 MHz and 4x 3100-4200, 45° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

### 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 Material Fiberglass, UV resistant

Radiator Material Aluminum | Low 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, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 10

### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 2 female | 2 male

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Input Voltage 10-30 Vdc

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

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

**Protocol** 3GPP/AISG 2.0

**Dimensions** 

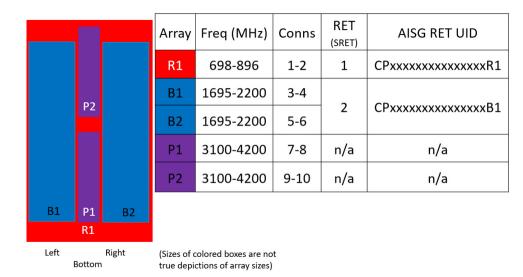
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 2437 mm | 95.945 in

 Net Weight, without mounting kit
 41.5 kg | 91.492 lb

# Array Layout



# Port Configuration





# **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 3100 – 4200 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

# **Electrical Specifications**

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Frequency Band, MHz	698-806	806-896	1695-188	0 1850-1990	0 1920-220	0 3100-355	0 3550-370	0 3700-4200
Gain, dBi	18	18.6	19.3	19.7	20.3	16.9	17.4	17.4
Beamwidth, Horizontal, degrees	46	41	45	43	41	49	42	40
Beamwidth, Vertical, degrees	9.3	8.2	5.7	5.4	5.1	9.7	9	8.4
Beam Tilt, degrees	0-10	0-10	0-8	0-8	0-8	4	4	4
USLS (First Lobe), dB	18	22	15	16	16	18	17	13
Front-to-Back Ratio at 180°, dB	32	34	33	34	36	32	33	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	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	-153	-153	-153	-153	-153	-140	-140	-140
Input Power per Port at 50°C,	250	250	250	250	250	100	100	100
maximum, watts								

# Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-188	0 1850-1990	0 1920-220	0 3100-355	0 3550-370	0 3700-4200
Gain by all Beam Tilts, average, dBi	17.6	18.4	18.9	19.5	19.8	16.4	17.1	17
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.3	±0.8	±0.4	±0.5	±0.6	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±2	±1.7	±2.8	±1.9	±2.2	±7	±3.6	±3.2
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.3	±0.3	±0.2	±0.4	±0.9	±0.8	±0.8
USLS, beampeak to 20° above beampeak, dB	16	15	15	15	15	17	16	13
Front-to-Back Total Power at 180° ± 30°, dB	24	25	24	26	27	26	25	20
CPR at Boresight, dB	20	21	19	19	17	14	16	17
CPR at Sector, dB	13	10	3	3	4	5	8	5

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 315.0 N @ 150 km/h (70.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,304.0 N @ 150 km/h (293.2 lbf @ 150 km/h)

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

# Packaging and Weights

 Width, packed
 563 mm | 22.165 in

 Depth, packed
 355 mm | 13.976 in

 Length, packed
 2610 mm | 102.756 in

 Weight, gross
 61.2 kg | 134.923 lb

# Regulatory Compliance/Certifications

Agency Classification	on
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CHINA-ROHS Above maximum concentration value

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

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ROHS UK-ROHS Compliant/Exempted
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

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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 1

# 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





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