

16- Port sector antenna, 4x 698-896, 8x 1695-2360 and 4x 3550-3700MHz, 65° HPBW, 3x RETs and 3x SBTs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Excellent wind loading characteristics
- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for Band 14, AWS, PCS and WCS applications
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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, high band 4
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 16

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 RET Low band (1) | Mid band (2)

COMMSCOPE®

Protocol 3GPP/AISG 2.0

Dimensions

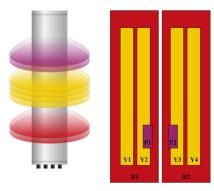
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1848 mm | 72.756 in

 Net Weight, without mounting kit
 34.9 kg | 76.941 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	698-896	1 - 2	1	AISG1	CD		
R2	698-896	3 - 4	'	AISGI	CPxxxxxxxxxxxxxxXR1		
Y1	1695-2360	5 - 6	2	41663	60		
Y2	1695-2360	7 - 8	2	AISG2	CPxxxxxxxxxxxxxxY1		
Y3	1695-2360	9 - 10			60		
Y4	1695-2360	11 - 12	3	AISG3	CPxxxxxxxxxxxxxXY3		
P1	3550-3700	13 - 14			****		
P2	3550-3700	15 - 16	N/A	NA	N/A		

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 3550 – 3700 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,600 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain, dBi	14.3	14.9	16.7	17.3	17.8	18.1	13.9
Beamwidth, Horizontal, degrees	71	63	71	67	62	60	62
Beamwidth, Vertical, degrees	11.4	10.1	6.9	6.4	6.1	5.6	16.2
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	8
USLS (First Lobe), dB	16	17	15	17	18	20	15
Front-to-Back Ratio at 180°, dB	30	28	36	35	34	36	33
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	100

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
Gain by all Beam Tilts, average, dBi	13.9	14.6	16.2	16.9	17.4	17.8	13.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.8	±0.5	±0.5	±0.4	±0.6
Front-to-Back Total Power at 180° ± 30°, dB	20	21	27	26	27	28	25
CPR at Boresight, dB	24	26	23	22	21	21	18
CPR at Sector, dB	15	11	7	4	5	6	7

Mechanical Specifications

Wind Loading @ Velocity, frontal 629.0 N @ 150 km/h (141.4 lbf @ 150 km/h)

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Wind Loading @ Velocity, lateral 191.0 N @ 150 km/h (42.9 lbf @ 150 km/h)

Wind Loading @ Velocity, maximum 755.0 N @ 150 km/h (169.7 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 433.0 N @ 150 km/h (97.3 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 599 mm | 23.583 in

 Depth, packed
 349 mm | 13.74 in

 Length, packed
 1989 mm | 78.307 in

 Weight, gross
 50.1 kg | 110.451 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.

* 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 1

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





