

12-port sector antenna, 4x 698–896 and 8x 1695–2360MHz, 45° HPBW, 6x RET

- 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
- Independent tilt for all arrays
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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	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	1 female 1 male
Input Voltage	10-30 Vdc
Internal RET	High band (4) Low band (2)
Power Consumption, idle state, maximum	1 W

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Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	457 mm 17.992 in
Depth	178 mm 7.008 in
Length	1848 mm 72.756 in
Net Weight, without mounting kit	36.4 kg 80.248 lb

Array Layout

	Y2 R	¥4	
	Y1	Y3	
	R	1	
Left		Rig	h

Arra	ay	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1		698-896	1-2	1	CPxxxxxxxxxxxxR1
R2		698-896	3-4	2	CPxxxxxxxxxxxxR2
Y 1		1695-2360	5-6	3	CPxxxxxxxxxxxxxXY1
¥2		1695-2360	7-8	4	CPxxxxxxxxxxxxXXXXXY2
Y3		1695-2360	9-10	5	CPxxxxxxxxxxxxXXXXXXXXXY3
Y4		1695-2360	11-12	6	CPxxxxxxxxxxxxXXXXY4

Right Bottom

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

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	13.9	14.9	16.9	17.5	18	18.7
Beamwidth, Horizontal, degrees	49	42	44	42	41	37
Beamwidth, Vertical, degrees	24.4	21.7	10.6	10	9.5	8.4
Beam Tilt, degrees	0-16	0-16	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	18	21	17	18	17	18
Front-to-Back Ratio at 180°, dB	35	33	35	36	36	34
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

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	150	150	300	300	300	250

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	13.6	14.6	16.5	17.1	17.6	18.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.5	±0.5	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0 ° 13.6 8 ° 13.6 16 ° 13.5	0 ° 14.6 8 ° 14.6 16 ° 14.4	0 ° 16.5 5 ° 16.6 10 ° 16.5	0 ° 17.0 5 ° 17.1 10 ° 17.1	0 ° 17.5 5 ° 17.6 10 ° 17.6	0 ° 18.3 5 ° 18.4 10 ° 18.2
Beamwidth, Horizontal Tolerance, degrees	±1.9	±3.2	±2.1	±1.6	±2.2	±2.1
Beamwidth, Vertical Tolerance, degrees	±1.5	±1.5	±0.6	±0.4	±0.7	±0.4
USLS, beampeak to 20° above beampeak, dB	8	10	18	19	17	18
Front-to-Back Total Power at 180° ± 30°, dB	25	24	28	29	30	28
CPR at Boresight, dB	23	24	16	19	20	21
CPR at 10 dB Horizontal Beamwidth, dB	12	13	7	8	11	14

Mechanical Specifications

Effective Projective Area (EPA), frontal	1.01 m ² 10.872 ft ²
Effective Projective Area (EPA), lateral	0.21 m² 2.26 ft²
Mechanical Tilt Range	0°-15°
Wind Loading @ Velocity, frontal	1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	222.0 N @ 150 km/h (49.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,077.0 N @ 150 km/h (242.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	946.0 N @ 150 km/h (212.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	608 mm	23.937 in
Depth, packed	346 mm	13.622 in

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Length, packed

Weight, gross

CHINA-ROHS

ISO 9001:2015

Agency

ROHS

1991 mm | 78.386 in

57 kg | 125.663 lb

Regulatory Compliance/Certifications

Above maximum concentration value Designed, manufactured and/or distributed under this quality management system 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

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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	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	6.2 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

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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	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	4.5 kg 9.921 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	

IncludedBrackets | HardwarePackaging quantity1

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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