

# 6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 33° HPBW, 2x RETs and 2x SBTs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- 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
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO

#### General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector 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	4
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

#### Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	2 female   2 male
Input Voltage	10-30 Vdc
Internal Bias Tee	Port 1   Port 3
Internal RET	High band (1)   Low band (1)

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Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	640 mm   25.197 in
Depth	235 mm   9.252 in
Length	1830 mm   72.047 in
Net Weight, without mounting kit	43 kg   94.799 lb

#### Array Layout

_	_	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
		R1	698-896	1-2	1	ANxxxxxxxxxxxxxxx1
		¥1	1695-2360	3-4	2	
		¥2	1695-2360	5-6	2	ANxxxxxxxxxxxxxx2
Y1	Y2					

Left Right Bottom

R1

(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	1920-2200	2300-2360
Gain, dBi	17.6	18.3	19.6	20.2	20.8	21.6
Beamwidth, Horizontal, degrees	37	32	34	35	34	30
Beamwidth, Vertical, degrees	12.7	11.2	5.8	5.4	5.1	4.6
Beam Tilt, degrees	2-13	2-13	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	22	18	19	20	20
Front-to-Back Ratio at 180°, dB	34	39	36	39	39	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	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

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PIM, 3rd Order, 2 x 20 W, dBc Input Power per Port at 50°C, maximum, watts	-153 300	-153 300	-153 250	-153 250	-153 250	-153 200
Mechanical Specifica	ations					
Effective Projective Area (EPA)	, frontal		0.72 m²   7.7	5 ft²		
Effective Projective Area (EPA)	0.24 m²   2.583 ft²					
Mechanical Tilt Range			0°-15°			
Wind Loading @ Velocity, front	765.0 N @ 150 km/h (172.0 lbf @ 150 km/h)					
Wind Loading @ Velocity, latera	251.0 N @ 150 km/h (56.4 lbf @ 150 km/h)					
Wind Loading @ Velocity, maxi	1,041.0 N @ 150 km/h (234.0 lbf @ 150 km/h)					
Wind Loading @ Velocity, rear			788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)			
Wind Speed, maximum			241 km/h (150 mph)			

#### Packaging and Weights

Width, packed	752 mm   29.606 in
Depth, packed	387 mm   15.236 in
Length, packed	1379 mm   54.291 in
Weight, gross	47.4 kg   104.499 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.

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#### \* 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.andrew.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	
Included	Brackets   Hardware
Packaging quantity	1

#### 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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