

# 6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- 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 RET for low band and one RET for both high bands 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	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
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)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Input Voltage Internal Bias Tee Internal RET Power Consumption, idle state, maximum	10–30 Vdc Port 1   Port 3 High band (1)   Low band (1) 2 W

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#### Protocol

#### Dimensions

301 mm   11.85 in
180 mm   7.087 in
1851 mm   72.874 in
19.8 kg   43.651 lb

### Array Layout

-		Тор	Array R1 Y1 Y2
	_		Y2
	Y1	Y2	
	11	12	
		R1	
	Left	Right	
	Во	ttom	

View from the front of the antenna (Sizes of colored boxes are not true depictions of array sizes)

### **Electrical Specifications**

Impedance

#### **Operating Frequency Band**

50 ohm

1695 - 2360 MHz | 698 - 896 MHz

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3GPP/AISG 2.0 (Single RET)

301 mm	11.85 in
180 mm	7.087 in
1851 mm	72.874 in
19.8 kg	43.651 lb

AISG RET UID

ANxxxxxxxxxxxxxxxx1 ANxxxxxxxxxxxxxx2

Conns

Freq (MHz)

RET (SRET)



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	14.4	14.4	17.1	17.6	17.9	18.1
Beamwidth, Horizontal, degrees	82.5	87	80	79.3	78	78
Beamwidth, Vertical, degrees	12.3	11.2	5.7	5.3	5	4.6
Beam Tilt, degrees	0-12	0-12	0-8	0-8	0-8	0-8
USLS (First Lobe), dB	18	16	14	16	17	18
Front-to-Back Ratio at 180°, dB	28	26	34	30	30	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	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	250	250	250	200

### Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	14.1	14.1	16.6	17.3	17.6	17.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0 °   14.1 6 °   14.2 12 °   14.0	0 °   14.0 6 °   14.3 12 °   13.8	0 °   16.6 4 °   16.6 8 °   16.7	0 °   17.3 4 °   17.4 8 °   17.3	0 °   17.6 4 °   17.6 8 °   17.5	0 °   17.6 4 °   17.8 8 °   17.6
Beamwidth, Horizontal Tolerance, degrees	±1.8	±2	±4.8	±4.0	±4.0	±2.6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.2	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	27	26	25	26
CPR at Boresight, dB	21	22	19	19	19	22

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CPR at Sector, dB	20	20	15	17	17	16	
Mechanical Specific	ations						
Effective Projective Area (EPA	0.27 m <sup>2</sup>   2.906 ft <sup>2</sup>						
Effective Projective Area (EPA), lateral 0.22				0.22 m <sup>2</sup>   2.368 ft <sup>2</sup>			
Mechanical Tilt Range 0°-15°				)°-15°			
Wind Loading @ Velocity, frontal283.0 N @ 15				i0 km/h (63.6 lbf (	@ 150 km/h)		
Wind Loading @ Velocity, later	al		234.0 N @ 15	60 km/h (52.6 lbf (	@ 150 km/h)		
Wind Loading @ Velocity, max	imum		545.0 N @ 15	i0 km/h (122.5 lb1	f @ 150 km/h)		
Wind Loading @ Velocity, rear	Wind Loading @ Velocity, rear 287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)						
Wind Speed, maximum			241 km/h (15	i0 mph)			

### Packaging and Weights

Width, packed	380 mm   14.961 in
Depth, packed	295 mm   11.614 in
Length, packed	1973 mm   77.677 in
Weight, gross	31.1 kg   68.564 lb

#### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above 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/Exempted
UK-ROHS	Compliant/Exempted

#### Included Products

9001:2015

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

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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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