

16-port sector antenna, 4x 698–896, 8x 1695–2360 and 4x 3550- 3700 MHz, 45° HPBW, 3x RETs and 3x SBTs.

- Features broadband Low Band (698-896 MHz), Mid Band(1695-2360 MHz) and High Band (3550-3700 MHz) arrays for 4T4R (4X MIMO) capability for bands 5, 13, 25, 66 and 48. Also covers bands 12, 14, 29, and 30
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Array configuration provides capability for 4T4R (4X MIMO) on Low Band, dual 4T4R (4X MIMO) on Mid Band and 4T4R (4X MIMO) on High Band
- Excellent wind loading characteristics
- Non-stacked mid 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 Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
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 Bias Tee	Port 1   Port 5   Port 7

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Internal RET	Low band (1)   Mid band (2)
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	1399 mm   55.079 in
Net Weight, antenna only	29.5 kg   65.036 lb

#### Net Weight, antenna only

#### Array Layout

			_	Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
				R1	698-896	1 - 2			<b>60</b>
				R2	698-896	3 - 4	1	AISG1	CPxxxxxxxxxxxxxxR1
				¥1	1695-2360	5 - 6			<b>CD</b>
	20	R2 ¥4	¥4	¥3	1695-2360	9 - 10	2	AISG2	CPxxxxxxxxxxxxxXY1
	12	K2	14	¥2	1695-2360	7 - 8			<b>CD</b>
		P2		¥4	1695-2360	11 - 12	3	AISG3	CPxxxxxxxxxxxxxxX2
				P1	3550-3700	13 - 14			24.4.4.0
		PI		P2	3550-3700	15 - 16	N/A	NA	N/A
	<mark>. vi</mark>		¥3	(Sizes of col	lored boxes are not true o	depictions of array sia	zes)		

## Port Configuration



### **Electrical Specifications**

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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**

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1,P2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3550-3700
RF Port	1-4	1-4	5-12	5-12	5-12	5-12	13-16
Gain, dBi	12.7	13.3	15.3	15.7	16.3	16.5	15
Beamwidth, Horizontal, degrees	48	44	44	41	39	37	45
Beamwidth, Vertical, degrees	36	30.4	14.5	13.6	12.8	11.1	15.6
Beam Tilt, degrees	2-18	2-18	0-10	0-10	0-10	0-10	8
USLS (First Lobe), dB	19	17	16	17	16	15	16
Front-to-Back Ratio at 180°, dB	33	30	31	32	31	30	31
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

### Mechanical Specifications

Effective Projective Area (EPA), frontal	0.74 m <sup>2</sup>   7.965 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.15 m <sup>2</sup>   1.615 ft <sup>2</sup>
Wind Loading @ Velocity, frontal	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	159.0 N @ 150 km/h (35.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

### Packaging and Weights

Width, packed

526 mm | 20.709 in



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Depth, packed	283 mm   11.142 in
Length, packed	1566 mm   61.654 in
Weight, gross	41.9 kg   92.374 lb

### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.andrew.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

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