

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
- Non-stacked high band array design provides higher gain and narrower vertical beamwidth than traditional antenna designs
- 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

#### 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector MaterialAluminumRF Connector LocationBottom

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** 

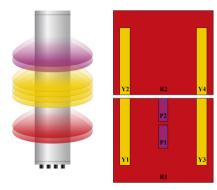
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 2437 mm | 95.945 in

 Net Weight, antenna only
 42 kg | 92.594 lb

#### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	698-896	1 - 2		AISG1	60		
R2	698-896	3 - 4	1		CPxxxxxxxxxxxxxR1		
Y1	1695-2360	5 - 6	_	AISG2	CPxxxxxxxxxxxxxxY1		
Y3	1695-2360	9 - 10	2				
Y2	1695-2360	7 - 8	3	AISG3	CPxxxxxxxxxxxxxY2		
Y4	1695-2360	11 - 12	3				
P1	3550-3700	13 - 14	N/A	NIA.	N/A		
P2	3550-3700	15 - 16	IN/A	NA			

(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**

	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	14.9	15.4	17.6	18.2	18.6	19.3	15.4
Beamwidth, Horizontal, degrees	48	44	44	41	41	37	44
Beamwidth, Vertical, degrees	20.3	17.9	8.2	7.5	7.1	6.3	15.8
Beam Tilt, degrees	2-18	2-18	0-10	0-10	0-10	0-10	8
USLS (First Lobe), dB	18	20	17	18	17	18	17
Front-to-Back Ratio at 180°, dB	33	37	33	32	35	34	34
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	300	250	250	200	100

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 315.0 N @ 150 km/h (70.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,304.0 N @ 150 km/h (293.2 lbf @ 150 km/h)

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

#### Packaging and Weights

**Width, packed** 526 mm | 20.709 in



 Depth, packed
 283 mm | 11.142 in

 Length, packed
 2604 mm | 102.52 in

 Weight, gross
 61 kg | 134.482 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.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.

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

