

10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

#### General Specifications

Antenna Type Sector

Band Multiband

**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 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 2
RF Connector Quantity, total 10

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (1)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

**Protocol** 3GPP/AISG 2.0 (Single RET)

**COMMSCOPE®** 

#### **Dimensions**

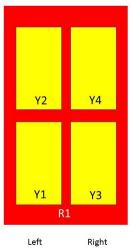
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 2100 mm | 82.677 in

Net Weight, without mounting kit 27.5 kg | 60.627 lb

#### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxXR1
Y1	1695-2690	3-4	2	CPxxxxxxxxxxxxXY1
Y2	1695-2690	5-6	3	CPxxxxxxxxxxxxxY2
Y3	1695-2690	7-8	4	CPxxxxxxxxxxxxXY3
Y4	1695-2690	9-10	5	CPxxxxxxxxxxxx4

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

## Port Configuration

Bottom



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 800 W @ 50 °C

### **Electrical Specifications**

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Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2200	2300-2500	2500-2690
Gain, dBi	15.4	15.8	16	16.3	16.6	16.9	16.9
Beamwidth, Horizontal, degrees	69	66	64	61	63	65	63
Beamwidth, Vertical, degrees	10.8	9.7	8.9	8.9	7.9	6.9	6.6
Beam Tilt, degrees	0-12	0-12	0-12	0-12	0-12	0-12	0-12
USLS (First Lobe), dB	18	21	20	15	16	15	15
Front-to-Back Ratio at 180°, dB	33	32	35	36	30	36	33
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25
Isolation, Inter-band, dB	28	28	28	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	1.5   14.0

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	250	250	250	200	200	200	200
maximum, watts							

### Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	15.1	15.6	15.8	15.8	16.3	16.6	16.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.4	±0.7	±0.4	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 15.1 6° 15.2 12° 14.9	0° 15.4 6° 15.7 12° 15.4	0° 15.7 6° 15.9 12° 15.5	0° 15.7 6° 15.9 12° 15.6	0° 16.0 6° 16.4 12° 16.2	0° 16.3 6° 16.7 12° 16.4	0° 16.3 6° 16.7 12° 16.1
Beamwidth, Horizontal Tolerance, degrees	±2.7	±1.4	±1.2	±4.4	±4.5	±6.3	±4.2
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.5	±0.7	±0.6	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	16	12	15	16	16	14
Front-to-Back Total Power at 180° ± 30°, dB	25	25	25	28	24	26	26
CPR at Boresight, dB	15	16	17	17	18	17	14
CPR at Sector, dB	12	11	10	11	11	8	5

### Mechanical Specifications

Wind Loading @ Velocity, frontal	355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	300.0 N @ 150 km/h (67.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	752.0 N @ 150 km/h (169.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	376.0 N @ 150 km/h (84.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

### Packaging and Weights

Width, packed	460 mm   18.11 in
Depth, packed	350 mm   13.78 in
Length, packed	2377 mm   93.583 in
Weight, gross	41.5 kg   91.492 lb

### Regulatory Compliance/Certifications

Agency Classification

**COMMSCOPE®** 

CE Compliant with the relevant CE product directives

CHINA-ROHS Above maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

ROHS Compliant/Exempted UK-ROHS 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.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

