

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

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

#### **OBSOLETE**

This product was discontinued on: November 30, 2023

### 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 7-16 DIN 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

 $\begin{array}{ll} \textbf{Power Consumption, idle state, maximum} & 1 \ \text{W} \\ \textbf{Power Consumption, normal conditions, maximum} & 8 \ \text{W} \\ \end{array}$ 

**COMMSCOPE®** 

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

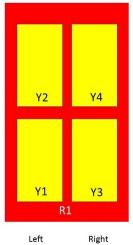
**Width** 350 mm | 13.78 in

**Depth** 208 mm | 8.189 in

**Length** 2688 mm | 105.827 in

Net Weight, without mounting kit 31.8 kg | 70.107 lb

### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
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**

'							
Frequency Band, MHz	694-790	790-890	890-960	1695-1880	1920-2200	2300-2500	2500-2690
Gain, dBi	16.3	16.7	16.9	16.9	17.5	17.6	17.1
Beamwidth, Horizontal, degrees	70	68	67	62	61	61	62
Beamwidth, Vertical, degrees	8.2	7.4	6.8	7.4	6.4	5.6	5.2
Beam Tilt, degrees	0-10	0-10	0-10	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	24	19	16	17	16	17
Front-to-Back Ratio at 180°, dB	26	30	32	33	38	35	32
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	1695-1880	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	16	16.5	16.6	16.3	17	16.9	16.6
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.4	±0.8	±0.6	±0.8	±0.7
Gain by Beam Tilt, average, dBi	0° 15.9 5° 16.1 10° 16.0	0° 16.3 5° 16.5 10° 16.5	0° 16.4 5° 16.8 10° 16.5	2° 16.2 7° 16.4 12° 16.2	2° 16.8 7° 17.1 12° 17.0	2° 16.7 7° 17.0 12° 16.7	2° 16.4 7° 16.8 12° 16.3
Beamwidth, Horizontal Tolerance, degrees	±1	±1.2	±1	±4.0	±2.2	±3.5	±4.1
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4	±0.4	±0.4	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	18	16	14	16	14	13
Front-to-Back Total Power at 180° ± 30°, dB	22	24	24	26	29	25	24
CPR at Boresight, dB	15	16	15	17	19	17	14
CPR at Sector, dB	10	10	11	10	9	10	9

### Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 506.0 N @ 150 km/h (113.8 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
 2830 mm | 111.417 in

 Weight, gross
 460 kg | 1,014.125 lb

Regulatory Compliance/Certifications

**COMMSCOPE®** 

#### **Agency**

#### Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



#### 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

