

16-port sector antenna, 4x 694–960, 4x 1427-2690 and 8x 1695–2690 MHz, 65° HPBW, 6x RET

- 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

### 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** 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, high band 12

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** 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (2)

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

Protocol 3GPP/AISG 2.0 (Single RET)

COMMSCOPE®

#### **Dimensions**

**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 2688 mm | 105.827 in

Net Weight, without mounting kit 53.5 kg | 117.947 lb

### Array Layout



Array	Freq (MHz)	Conns	RET(SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxY1
Y6	1695-2690	15-16	3	CPXXXXXXXXXXXXXXX
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxY3
Y5	1695-2690	13-14	3	CPXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Y4	1427-2690	11-12	6	CPxxxxxxxxxxxxxY4

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

## Port Configuration

Bottom



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

## **Electrical Specifications**

	R1-R2	R1-R2	R1-R2	Y1/Y3/Y5/Y	6 Y 1 / Y 3 / Y 5 / Y	6Y2&Y4	Y2&Y4	Y2&Y4
Frequency Band, MHz	694-790	790-890	890-960	1695-2200	2300-2690	1427-1518	8 1695–220	0 2300-2690
Gain, dBi	15.6	16	16.1	17.4	17.9	15.3	17.1	17.7
Beamwidth, Horizontal, degrees	72	66	64	60	59	67	61	58
Beamwidth, Vertical, degrees	8.9	7.9	7.4	6.9	5.4	9.5	7.4	5.6
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	20	18	24	23	18	22
Front-to-Back Ratio at 180°, dB	36	30	27	33	31	35	36	33
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	25	25	25	25	25

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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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-2200	2300-2690	1427-151	8 1695-220	0 2300-2690
Gain by all Beam Tilts, average, dBi	15.2	15.7	15.7	16.5	17.4	15	16.2	17.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±1.1	±0.8	±0.4	±1	±0.5
Gain by Beam Tilt, average, dBi	2° 15.2 8° 15.4 14° 15.1	2° 15.5 8° 15.8 14° 15.5	2° 15.6 8° 15.9 14° 15.4	2° 16.3 7° 16.6 12° 16.4	2° 17.0 7° 17.5 12° 17.3	2° 14.8 7° 15.0 12° 15.1	2° 16.1 7° 16.3 12° 16.2	2° 17.1 7° 17.6 12° 17.2
Beamwidth, Horizontal Tolerance, degrees	±5.9	±4.8	±3.7	±10.5	±7.3	±6.9	±9.8	±5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.5	±0.9	±0.4	±0.5	±1	±0.4
USLS, beampeak to 20° above beampeak, dB	16	16	16	16	16	16	17	18
Front-to-Back Total Power at 180° ± 30°, dB	23	22	23	27	24	26	28	27
CPR at Boresight, dB	22	21	19	19	19	17	19	21

### Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

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

## Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 74.5 kg | 164.244 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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



#### Included Products

BSAMNT-4 – 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-M4 – 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

