

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

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Non-stacked high 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 MaterialAluminumReflector MaterialAluminumRF Connector Interface4.3-10 Female

**RF Connector Location**Bottom

RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

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

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

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

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

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

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#### Dimensions

 Width
 499 mm | 19.646 in

 Depth
 199 mm | 7.835 in

 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 37.1 kg | 81.791 lb

### Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxXY3
Y4	1695-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxx4

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

# Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

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

Polarization ±45°

**COMMSCOPE®** 

**Total Input Power, maximum** 

1,000 W

## **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	694-806	790-890	880-960	1695-188	0 1850-199	0 1920–220	0 2300–240	0 2500-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Gain, dBi	15.7	16.1	16.3	16.9	17.1	17.2	17.6	18
Beamwidth, Horizontal, degrees	65	67	68	70	67	68	62	57
Beamwidth, Vertical, degrees	9.8	8.7	8	6.6	6.3	5.9	5.3	4.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	18	17	15	17	19	21	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	27	29	29	26	27	27	27	27
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200	200

# Electrical Specifications, BASTA

Frequency Band, MHz	694-806	790-890	880-960	1695-188	0 1850-199	0 1920–220	0 2300-240	0 2500-2690
Gain by all Beam Tilts, average, dBi	15.3	15.9	16.1	16.4	16.7	16.8	17.1	17.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.4	±0.6	±0.6	±0.5	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±4	±4	±4	±11	±10	±7	±7	±6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.5	±0.4	±0.3	±0.4	±0.2	±0.2
CPR at Boresight, dB	23	22	21	21	22	24	22	19

# Mechanical Specifications

 Wind Loading @ Velocity, frontal
 608.0 N @ 150 km/h (136.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,078.0 N @ 150 km/h (242.3 lbf @ 150 km/h)

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Wind Speed, maximum 200 km/h (124 mph)

### Packaging and Weights

 Width, packed
 570 mm | 22.441 in

 Depth, packed
 275 mm | 10.827 in

 Length, packed
 2375 mm | 93.504 in

 Weight, gross
 48.4 kg | 106.704 lb

### Regulatory Compliance/Certifications

#### Agency Classification

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



#### Included Products

BSAMNT-B92-08 – 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

