

8-port sector antenna, 4x 694–960 and 4x 1695–2690 MHz, 85° HPBW, 4x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Antenna shape optimized for wind load reduction

### 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

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 4

RF Connector Quantity, total 8

### 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 Low band (2) | Mid band (2)

Power Consumption, active state, maximum 8 W Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

**Dimensions** 

**Width** 430 mm | 16.929 in

**COMMSCOPE®** 

**Depth** 197 mm | 7.756 in

**Length** 2769 mm | 109.016 in

Net Weight, antenna only 38.9 kg | 85.76 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID	
R1	694-960	1 - 2	85°	1	AISG1	CPxxxxxxxxxxxxxR1	
R2	694-960	3 - 4	85°	2	AISG1	CPxxxxxxxxxxxxxR2	
Y1	1695-2690	5 - 6	85°	3	AISG1	CPxxxxxxxxxxxxxY1	
Y2	1695-2690	7 - 8	85°	4	AISG1	CPxxxxxxxxxxxxxY2	

(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°

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**Total Input Power, maximum** 

900 W @ 50 °C

## **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	790-894	890-960	1695-1995	1920-2300	2300-2500	2490-2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Gain at Mid Tilt, dBi	15.6	16.2	16.6	16.9	17.4	17.8	18
Beamwidth, Horizontal, degrees	86	80	75	87	87	77	71
Beamwidth, Vertical, degrees	8.2	7.5	7	5.5	4.9	4.4	4.2
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	22	18	15	15	16	15
Front-to-Back Ratio at 180°, dB	31	34	32	27	27	28	35
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	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960	1695-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	15.5	16.1	16.4	16.7	17.2	17.6	17.8
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.4	±0.9	±0.5	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±10	±6	±3	±7	±7	±7	±4
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4	±0.6	±0.4	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	14	14	14	13	13	13	13
Front-to-Back Total Power at 180° ± 30°, dB	22	23	22	24	22	22	25
CPR at Boresight, dB	22	22	21	17	17	19	16
CPR at Sector, dB	11	11	14	9	7	7	7

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### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,020.0 N @ 150 km/h (229.3 lbf @ 150 km/h)

**Wind Loading @ Velocity, rear** 434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 511 mm | 20.118 in

 Depth, packed
 318 mm | 12.52 in

 Length, packed
 2890 mm | 113.78 in

 Weight, gross
 59 kg | 130.073 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

