

6-port sector antenna, 2x 698-960, 4x1710-2690 MHz, 65° HPBW, 3x RET

- 3 Independent Arrays (1 Low band and 2 high bands) in a single radome housing with small formfactor
- Symmetrical high band arrays with consistent electrical performance
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment
- Pluggable RET with retractable tilt scale

### 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 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 6

### 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 (1) | Mid band (2)

Power Consumption, active state, maximum  $10~\mathrm{W}$ Power Consumption, idle state, maximum  $2~\mathrm{W}$ 

COMMSC PE°

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

**Dimensions** 

 Width
 397 mm | 15.63 in

 Depth
 157 mm | 6.181 in

 Length
 997 mm | 39.252 in

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	698-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1710-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxY1
Y2	1710-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxY2

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

## Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2690 MHz | 698 – 960 MHz

 ${\bf Polarization} \hspace{2cm} \pm 45^{\circ}$   ${\bf Total \ Input \ Power, \ maximum} \hspace{2cm} 800 \ W$ 

### **Electrical Specifications**

Frequency Band, MHz	698-787	783-806	806-960	1710-188	0 1850-192	0 1920-218	0 2300–250	0 2500-2690
Gain, dBi	12.8	13.2	14.1	14.8	14.8	15.5	16.2	16.5
Beamwidth, Horizontal, degrees	67	64	62	70	70	67	62	61
Beamwidth, Vertical, degrees	23.4	21.7	19.5	12.7	12	11.4	10.3	9.6
Beam Tilt, degrees	3-16	3-16	3-16	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	18	19	17	18	18	20	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	28	28	27	28	29	30	29
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	698-787	783-806	806-960	1710-188	0 1850-192	0 1920–218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	12.6	13.1	13.7	14.5	14.6	15.1	15.8	16.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.1	±0.5	±0.3	±0.3	±0.5	±0.6	±0.4
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.7	±2.9	±6.6	±4.6	±4.1	±3.7	±2
Beamwidth, Vertical Tolerance, degrees	±1.4	±0.4	±1.6	±0.8	±0.4	±0.6	±0.7	±0.6
CPR at Boresight, dB	23	24	25	24	24	23	21	25

Mechanical Specifications

**COMMSCOPE®** 

 Wind Loading @ Velocity, frontal
 247.0 N @ 150 km/h (55.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)

**Wind Loading @ Velocity, rear** 398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 492 mm | 19.37 in

 Depth, packed
 277 mm | 10.906 in

 Length, packed
 1177 mm | 46.339 in

 Weight, gross
 20.4 kg | 44.974 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



#### Included Products

BSAMNT-B95-01 – 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

