

8-port sector antenna, 4X 617-894 and 4X 1695-2690 MHz, 65°HPBW, 2X RET

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2690 MHz

### 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** 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET Low band (1) | Mid band (1)

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

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

**Dimensions** 

**Width** 640 mm | 25.197 in

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Depth

235 mm | 9.252 in

Length

2438 mm | 95.984 in

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1		
R2	617-894	3 - 4	81				
Y1	1695-2690	5 - 6	1	AICC1	CP		
Y2	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxxXY1		

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

### Port Configuration



### **Electrical Specifications**

Impedance

50 ohm

**Operating Frequency Band** 

1695 - 2690 MHz | 617 - 894 MHz

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Polarization ±45°

Total Input Power, maximum  $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$ 

### **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
RF Port	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain, dBi	16.2	17	19.9	20.1	20.3	20.2	20.7
Beamwidth, Horizontal, degrees	68	62	65	59	61	67	57
Beamwidth, Vertical, degrees	10.2	8.6	4.2	4.1	3.9	3.4	3.2
Beam Tilt, degrees	2-12	2-12	2-9	2-9	2-9	2-9	2-9
USLS (First Lobe), dB	15	16	17	16	17	17	19
Front-to-Back Ratio at 180°, dB	30	33	37	38	36	35	34
Front-to-Back Total Power at 180° ± 30°, dB	22	23	30	31	29	27	26
CPR at Boresight, dB	16	16	25	23	19	21	27
CPR at Sector, dB	8	8	4	4	5	7	7
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	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

### Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	15.7	16.3	19	19.6	19.7	19.3	19.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.7	±0.3	±0.5	±0.6	±0.7
Beamwidth, Horizontal Tolerance, degrees	±6	±4	±5	±4	±9	±9	±10
Beamwidth, Vertical Tolerance, degrees	±0.7	±1	±0.2	±0.2	±0.3	±0.3	±0.2
USLS, beampeak to 20° above	15	15	12	14	15	13	11

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#### beampeak, dB

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 987.0 N @ 150 km/h (221.9 lbf @ 150 km/h)

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

 Wind Loading @ Velocity, maximum
 1,257.0 N @ 150 km/h (282.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 616.0 N @ 150 km/h (138.5 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 744 mm | 29.291 in

 Depth, packed
 384 mm | 15.118 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 80.7 kg | 177.913 lb

 Weight, net
 59.5 kg | 131.175 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

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

#### Included Products

BSAMNT-3F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

