

# 8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, $45^{\circ}$ HPBW, 4x RET

- Independent tilt for all arrays
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

### General Specifications

Antenna Type Sector with internal RET

**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 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 4
RF Connector Quantity, mid band 0
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 High band (2) | Low band (2)

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

**Protocol** 3GPP/AISG 2.0 (Multi-RET)



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#### **Dimensions**

**Width** 640 mm | 25.197 in

**Depth** 235 mm | 9.252 in

**Length** 2437 mm | 95.945 in

Net Weight, antenna only 61 kg | 134.482 lb

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1
R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxxMM.4

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

### Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

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

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### **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	16.4	17.1	18.8	19.2	20	20.5
Gain at Mid Tilt, dBi	16	17	18.4	19.1	19.6	20.5
Beamwidth, Horizontal, degrees	51	45	46	49	47	38
Beamwidth, Vertical, degrees	9.6	8.4	5.7	5.3	5	4.5
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	15	15	16	16	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	28	30	26	26	27	26
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	-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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	300	300	300	250

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,434.0 N @ 150 km/h (322.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 79.2 kg | 174.606 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

ROHS Compliant UK-ROHS Compliant



#### 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

