

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 65° HPBW, 6x RET.

- Optimized for rooftop applications Heavily suppressed lower sidelobes for elevation pattern
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

#### 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 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 8
RF Connector Quantity, mid band 0
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 High band (8) | Low band (4)

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



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Protocol 3GPP/AISG 2.0 (Multi-RET)

**Dimensions** 

**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 2438 mm | 95.984 in

Net Weight, antenna only 48.4 kg | 106.704 lb

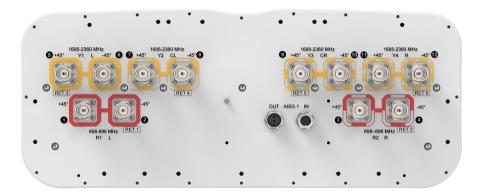
#### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID	
R1	698-896	1 - 2	1	ANxxxxxxxxxxxxx1	
R2	698-896	3 - 4	2	ANxxxxxxxxxxxx2	
Y1	1695-2360	5 - 6	3	ANxxxxxxxxxxx3	
Y2	1695-2360	7 - 8	4	ANxxxxxxxxxxxx4	
Y3	1695-2360	9 - 10	5	ANxxxxxxxxxxxxx5	
Y4	1695-2360	11 - 12	6	ANxxxxxxxxxxxx6	

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

## Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

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

Polarization ±45°

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

### **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	14.9	15.6	17.1	17.7	18.2	18.3
Beamwidth, Horizontal, degrees	71	65	69	67	63	58
Beamwidth, Vertical, degrees	11	9.2	5.6	5.2	5	4.5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	12	11	19	20	22	24
Front-to-Back Ratio at 180°, dB	31	30	35	35	36	35
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 at 50°C, maximum, watts	300	300	300	250	250	200

#### Mechanical Specifications

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

 Wind Loading @ Velocity, lateral
 331.0 N @ 150 km/h (74.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,235.0 N @ 150 km/h (277.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 785.0 N @ 150 km/h (176.5 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2625 mm | 103.347 in



**Weight, gross** 63.1 kg | 139.112 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-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

