

16-port sector antenna, 4x 694–960 and 8x 1695-2690 MHz 65° HPBW and 4x 1695-2400 MHz 2x 33° HPBW, 8x RET.

• All Internal RET actuators are connected in "Cascaded SRET" configuration

#### General Specifications

Antenna TypeMultibeamBandMultiband

**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

RF Connector Quantity, high band

RF Connector Quantity, mid band

RF Connector Quantity, low band

AF Connector Quantity, total

Bottom

12

4

#### 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 High band (6) | Low band (2)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

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

#### **Dimensions**



Page 1 of 6

**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 2688 mm | 105.827 in

Net Weight, without mounting kit 49.6 kg | 109.349 lb

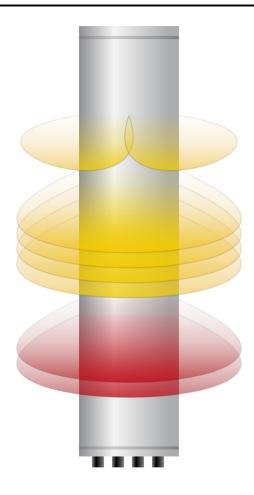
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxx4
Y5	1695-2400	13 - 14	7	AISG1	CPxxxxxxxxxxxxxY5
Y6	1695-2400	15 - 16	8	AISG1	CPxxxxxxxxxxxxXY6

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

# Beams Configuration



Port Configuration





## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2400 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

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

## **Electrical Specifications**

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	R1-R2	R1-R2	Y1-Y4	Y1-Y4	Y1-Y4	Y5-Y6	Y5-Y6	Y5-Y6
Frequency Band, MHz	694-790	790-960	1695-192	0 1920–218	0 2300–269	0 1695–1880	0 1920–218	0 2300-2400
Gain, dBi	15.9	16.6	16.5	17.8	18.4	17.9	19.4	19.3
Beam Centers, Horizontal, degrees						±27	±27	±27
Beamwidth, Horizontal, degrees	70	62	68	62	58	32	31	30
Beamwidth, Vertical, degrees	9	7.7	7.4	6.5	5.5	7.4	6.5	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	18	19	24	19	21	22
Front-to-Back Ratio at 180°, dB	31	30	33	32	31	32	36	32
Isolation, Cross Polarization,	28	28	25	25	25	25	25	25

Page 4 of 6



dB								
Isolation, Inter-band, dB	28	28	28	28	28	28	28	28
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 at 50°C, maximum, watts	300	300	200	200	200	200	200	200

#### Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 70.6 kg | 155.646 lb

### Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Below maximum concentration value

ROHS Compliant UK-ROHS Compliant



#### 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

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**Performance Note** 

Severe environmental conditions may degrade optimum performance

