

10-port sector/multibeam antenna, 2x 694–960 MHz 65° HPBW and 8x 1710–2180 MHz 4x 33°HPBW, 5x RET with tilt indicators

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

### General Specifications

Antenna TypeMultibeamBandMultiband

**Grounding Type**RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note

Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

**Radome Material** Fiberglass, UV resistant

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 2
RF Connector Quantity, total 10

#### 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 (4) | Low band (1)

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

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



#### **Dimensions**

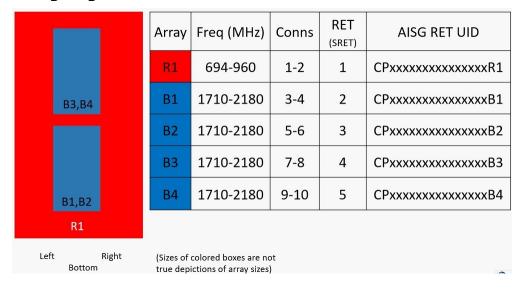
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

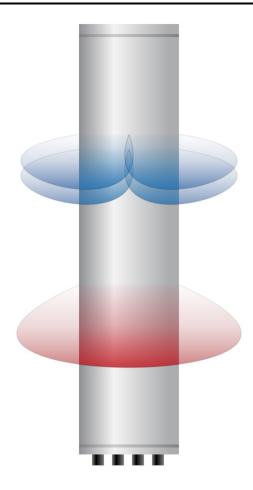
 Length
 1580 mm | 62.205 in

Net Weight, with installed actuator 25 kg | 55.115 lb

### Array Layout

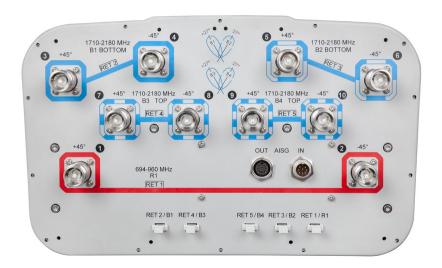


## Beams Configuration



Port Configuration





## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2180 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

## **Electrical Specifications**

Frequency Band, MHz	694-790	790-890	880-960	1710-1880	1850-1990	1920-2180
Gain, dBi	14.4	14.8	14.9	15.9	16.5	17.1
Beam Centers, Horizontal, degrees				±27	±27	±27
Beamwidth, Horizontal, degrees	69	67	65	33	32	30
Beamwidth, Vertical, degrees	13.5	12.3	11.5	11.9	11.2	10.6
Beam Tilt, degrees	2-14	2-14	2-14	2-14	2-14	2-14
USLS (First Lobe), dB	14	16	17	17	18	19
Front-to-Back Ratio at 180°, dB	32	34	33	31	34	35
Isolation, Cross Polarization, dB	28	28	28	25	25	25



Page 4 of 6

Isolation, Inter-band, dB	30	30	30	25	25	25
Isolation, Beam to Beam, dB				17	17	17
VSWR   Return loss, dB	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5
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	200	200	200

### Mechanical Specifications

Mechanical Tilt Range 0°-22°

 Wind Loading @ Velocity, frontal
 254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 214.0 N @ 150 km/h (48.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 539.0 N @ 150 km/h (121.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 269.0 N @ 150 km/h (60.5 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 460 mm | 18.11 in

 Depth, packed
 372 mm | 14.646 in

 Length, packed
 1867 mm | 73.504 in

 Weight, gross
 38 kg | 83.776 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-3 – 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

Page 5 of 6



