

#### 4-port sector antenna, 4x 1695–2690 MHz, 33°HPBW, 2x RETs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- Ideal for high gain corridor coverage or capacity optimization
- All Internal RET actuators are connected in "Cascaded SRET" configuration

#### General Specifications

RF Connector Quantity, Total

Antenna Type Sector

**Band** Single band

**Radome Color** Light Gray (RAL 7035)

**Lightning Protection** RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance NoteOutdoor usageRF Connector Type4.3-10 Female

RF Connector Position Bottom
RF Connector Quantity, Mid band 4

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

Compatible Standards 3GPP/AISG 2.0 (Single RET)

Low power consumption2 WHigh power consumption10 WInput Voltage10-30 Vdc

Internal RET, Mid band

**RET Interface, quantity** 1 Male | 1 Female

#### Antenna Dimensions and Weight

 Height
 1500 mm | 59.1 in

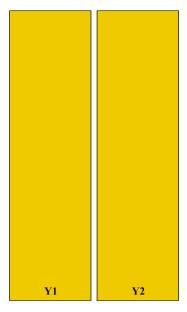
 Width
 498 mm | 19.6 in

 Depth
 197 mm | 7.8 in

 Net weight
 21.6 kg | 47.6 lb



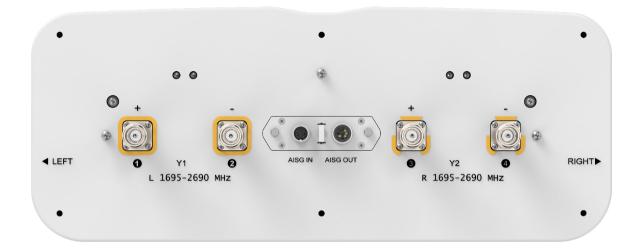
## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	33°	1	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	33°	2	AISG1	CPxxxxxxxxxxxxxY2

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

Port Configuration



## **Electrical Specifications**

Frequency Range, MHz 1695 – 2690 MHz

Maximum Effective Power Whole Antenna500 WImpedance, ohms50 ohmPolarization±45°

## **Electrical Specifications**

RF Ports	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4
Array	Y1, Y2				
Frequency Sub-Range, MHz	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain, dBi	20.4	20.9	21.4	22	21.9
Gain over all tilts, dBi	19.9 ±0.7	20.6 ±0.4	21.2 ±0.5	21.7 ±0.4	21.6 ±0.5
Azimuth Beamwidth @3dB, degrees	38 ±3.3	33 ±2.2	30 ±3.1	25 ±1.6	26 ±1.6
Elevation Beamwidth, degrees	6.7 ±0.4	6.3 ±0.3	5.8 ±0.4	5 ±0.2	4.7 ±0.2
Electrical Downtilt Range, degrees	2-12	2-12	2-12	2-12	2-12
First Upper Sidelobe Suppression, dB	17	20	19	20	18
Front-to-Back Ratio, 180°±30° Region (Co-Pol Only), dB	29	30	30	30	26
Cross-Polar Discrimination at Mechanical boresight, dB	20	22	22	24	20
Isolation, Cross-Polarization, dB	28	28	28	28	28
Isolation, Inter-band, dB	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
Passive Intermodulation, 3rd Order, 2 x 20W, dBc	-150	-150	-150	-150	-150
Maximum Effective Power per Port, watts	200	200	200	200	200

## Material Specifications

Radiator MaterialLow loss circuit boardRadome MaterialFiberglass, UV resistant

Reflector Material Aluminum

### Mechanical Specifications

 Windload – Frontal
 549 N @ 150 km/h (123.4 lbf @ 150 km/h)

 Windload – Lateral
 183 N @ 150 km/h (41.1 lbf @ 150 km/h)

 Windload – Rear
 452 N @ 150 km/h (101.6 lbf @ 150 km/h)

**Survival Wind Speed** 241 km/h | 150 mph



#### Packaging and Weights

 Height, packed
 1755 mm | 69.1 in

 Width, packed
 560 mm | 22.0 in

 Depth, packed
 280 mm | 11.0 in

 Shipping Weight
 33.5 kg | 73.9 lb

## Regulatory Compliance/Certifications

Agency Classification

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

ROHS Compliant

CHINA-ROHS Below maximum concentration value



#### Included Products

**BSAMNT-B92-05** — 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

Values compliant with BASTA recommendations

