

#### 4-port multibeam antenna, 4x 1695–2400 MHz, 2x 38° HPBW, 2x RET

- Enhances network capacity through six sectors site application with only three antenna faces
- Maximizes frequency spectrum utilization to increase Average Revenue Per User (ARPU)
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs
- High gain with excellent sector edge roll-off and azimuth sidelobe suppression
- Each antenna downtilt can be independently adjusted for greater flexibility in network optimization

#### General Specifications

Antenna Type Multibeam

Band Single band

Color Light Gray (RAL 7035)

**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 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, total 4

#### Remote Electrical Tilt (RET) Information

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

**RET Interface, quantity** 2 female | 2 male

Input Voltage10-30 VdcInternal RETHigh band (2)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

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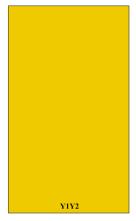
**Width** 350 mm | 13.78 in

**Depth** 208 mm | 8.189 in

**Length** 1400 mm | 55.118 in

Net Weight, without mounting kit 17.6 kg | 38.801 lb

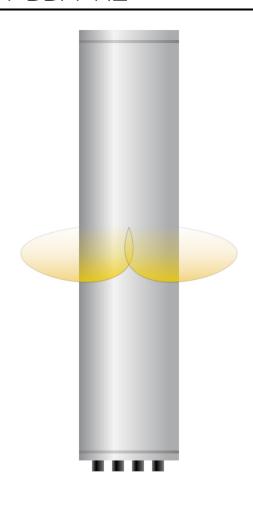
### Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2400	1 - 2	33°	1	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2400	3 - 4	33°	2	AISG1	CPxxxxxxxxxxxxxY2

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

Beams Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2400 MHz

Polarization ±45°

### **Electrical Specifications**

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400
Gain, dBi	19.1	19.6	19.9	19.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	38	35.8	34	30
Beamwidth, Vertical, degrees	7.5	7	6.5	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12

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USLS (First Lobe), dB	20	20	19	18
Front-to-Back Ratio at 180°, dB	34	37	37	30
Isolation, Cross Polarization, dB	28	28	28	28
Isolation, Inter-band, dB	16	16	16	16
VSWR   Return loss, dB	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
Input Power per Port, maximum, watts	250	250	250	250

## Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400
Gain by all Beam Tilts, average, dBi	18.7	19.3	19.6	18.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.6	±0.6
Gain by Beam Tilt, average, dBi	2° 18.6 7° 18.8 12° 18.6	2 °   19.1 7 °   19.4 12 °   19.2	2° 19.5 7° 19.8 12° 19.0	2° 19.0 7° 18.8 12° 18.3
Beamwidth, Horizontal Tolerance, degrees	±1.3	±1.3	±2.2	±1.7
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	14	15	15	15
Front-to-Back Total Power at 180° ± 30°, dB	28	29	27	24
CPR at Boresight, dB	23	24	19	13

## Mechanical Specifications

Wind Loading @ Velocity, frontal	221.0 N @ 150 km/h (49.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	185.0 N @ 150 km/h (41.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	469.0 N @ 150 km/h (105.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

### Packaging and Weights

Width, packed	447 mm   17.598 in
Depth, packed	354 mm   13.937 in
Length, packed	1544 mm   60.787 in
Weight, gross	30 kg   66.139 lb

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### Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

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

