

12-port sector antenna, 4x 694–896 and 8x 1695–2360 MHz, 65° HPBW, 6x RETs

- 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
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

#### 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 Material** Fiberglass, UV resistant

Radiator Material Aluminum | Low 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, 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** 2 female | 2 male

Input Voltage 10–30 Vdc

Internal RET High band (4) | Low band (2)

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

Protocol 3GPP/AISG 2.0 (Multi-RET)

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#### Dimensions

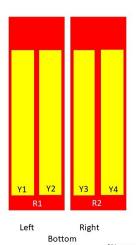
**Width** 430 mm | 16.929 in

**Depth** 197 mm | 7.756 in

**Length** 1848 mm | 72.756 in

Net Weight, without mounting kit 32 kg | 70.548 lb

#### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-896	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	694-896	3-4	2	CPxxxxxxxxxxxxxxXR2
Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxXY1
Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxY2
Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxxxXY3
Y4	1695-2360	11-12	6	CPxxxxxxxxxxxxx4

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

# Port Configuration



# **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 694 – 896 MHz

Polarization ±45°

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

# **Electrical Specifications**

'						
Frequency Band, MHz	694-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	13.7	14.5	16.3	17.1	17.6	18.2
Beamwidth, Horizontal, degrees	63	57	66	60	59	55
Beamwidth, Vertical, degrees	12.6	10.9	6.8	6.3	6	5.4
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	18	14	15	17	18
Front-to-Back Ratio at 180°, dB	30	32	31	34	33	30
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	250	250	250	200
maximum, watts						

#### Electrical Specifications, BASTA

Frequency Band, MHz	694-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	13.3	14.2	15.7	16.6	17.1	17.7
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.6	±0.7	±0.5	±0.5
Gain by Beam Tilt, average, dBi	2° 13.4 8° 13.4 14° 13.2	2° 14.3 8° 14.3 14° 13.9	2° 15.5 7° 15.9 12° 15.6	2° 16.4 7° 16.8 12° 16.4	2° 16.8 7° 17.3 12° 17.0	2° 17.6 7° 18.0 12° 17.3
Beamwidth, Horizontal Tolerance, degrees	±8.8	±5.7	±8.1	±5.3	±4.6	±3.4
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.7	±0.5	±0.4	±0.4	±0.2
USLS, beampeak to 20° above beampeak, dB	20	18	13	14	15	13
Front-to-Back Total Power at 180° ± 30°, dB	24	22	26	27	27	27
CPR at Boresight, dB	20	22	18	19	20	21
CPR at Sector, dB	9	6	9	6	4	6

#### Mechanical Specifications

Effective Projective Area (EPA), frontal	0.44 m <sup>2</sup>	4.736 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.23 m <sup>2</sup>	2.476 ft <sup>2</sup>

Mechanical Tilt Range 0°-18°

 Wind Loading @ Velocity, frontal
 471.0 N @ 150 km/h (105.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 241.0 N @ 150 km/h (54.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 762.0 N @ 150 km/h (171.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 445.0 N @ 150 km/h (100.0 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 530 mm | 20.866 in

 Depth, packed
 349 mm | 13.74 in

 Length, packed
 2020 mm | 79.528 in

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**Weight, gross** 42.3 kg | 93.255 lb

#### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



#### Included Products

BSAMNT-2F – 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



# BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

#### Product Classification

**Product Type** Fixed tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

#### Packaging and Weights

Included Brackets | Hardware

Packaging quantity

**Weight, gross** 4 kg | 8.818 lb

#### Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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