

## 8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, $65^{\circ}$ HPBW, 2x RETs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Mid 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location**Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

#### 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 Low band (1) | Mid band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

**Protocol** 3GPP/AISG 2.0 (Multi-RET)

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#### Dimensions

**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 1828 mm | 71.969 in

Net Weight, antenna only 31 kg | 68.343 lb

#### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2		AISG1	CD-company and MM 1	
R2	698-896	3 - 4	'		CPxxxxxxxxxxxxxxxxXM.1	
Y1	1695-2360	5-6	,	AISG1	CPxxxxxxxxxxMM.2	
Y2	1695-2360	7 - 8	2			

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

#### Port Configuration



#### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 896 MHz

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Polarization ±45°

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

## **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	14.6	15	17	17.3	17.5	17.9
Beamwidth, Horizontal, degrees	66	64	58	61	63	59
Beamwidth, Vertical, degrees	11.9	10.3	7.4	6.9	6.4	5.7
Beam Tilt, degrees	2-14	2-14	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	17	19	14	19	16	18
Front-to-Back Ratio at 180°, dB	30	31	35	38	37	34
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
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	250	250	250	200

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	14.2	14.7	16.4	16.9	17	17.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.9	±0.4	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±10.7	±6.5	±6.7	±5.6	±6.9	±7.5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.8	±0.4	±0.7	±0.2
USLS, beampeak to 20° above beampeak, dB	17	19	14	17	15	17
Front-to-Back Total Power at 180° ± 30°, dB	21	21	30	31	27	27
CPR at Boresight, dB	21	22	16	17	18	17

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**CPR at Sector, dB** 9 6 9 9 8 12

#### Mechanical Specifications

Effective Projective Area (EPA), frontal 0.58 m² | 6.243 ft²

Effective Projective Area (EPA), lateral 0.18 m² | 1.938 ft²

 Wind Loading @ Velocity, frontal
 622.0 N @ 150 km/h (139.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 428.0 N @ 150 km/h (96.2 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
 2015 mm | 79.331 in

 Weight, gross
 42.6 kg | 93.917 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-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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# BSAMNT-2F









