

12-port sector antenna, 4x 694–894 and 8x 1695–2360 MHz, 85° 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

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance NoteOutdoor usageRF Connector Interface4.3-10 Female

RF Connector Location Bottom

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

RF Connector Quantity, total

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 Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

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Length

1828 mm | 71.969 in

Net Weight, antenna only

39 kg | 85.98 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	698-894	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2360	9 - 10	5	AISG1	CPxxxxxxxxxxxxxY3
Y4	1695-2360	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY4

(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 - 894 MHz

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Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	14.5	14.8	15.9	16.8	17.4	17.9
Beamwidth, Horizontal, degrees	82	76	84	82	77	73
Beamwidth, Vertical, degrees	12.5	11.1	5.5	5.2	5	4.6
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	15	18	18	18
Front-to-Back Ratio at 180°, dB	33	27	28	30	30	29
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	153	153	153	153	153	153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	694-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	14	14.5	15	16.1	16.7	17.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±1.5	±0.7	±1	±0.6
Beamwidth, Horizontal Tolerance, degrees	±10	±5	±8	±10	±10	±11
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.7	±0.2	±0.3	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	20	19	13	15	16	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	22	25	24	24
CPR at Boresight, dB	23	22	16	16	16	17
CPR at Sector, dB	11	8	10	11	11	8

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Mechanical Specifications

 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
 50 kg | 110.231 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









