

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 65° HPBW, 6x RET.

- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for Band 14, AWS, PCS and WCS applications
- Independent tilt for all arrays
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF 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, 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 1 female | 1 male

Input Voltage 10-30 Vdc

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

 $\begin{array}{ll} \textbf{Power Consumption, idle state, maximum} & 1 \ \mathbb{W} \\ \textbf{Power Consumption, normal conditions, maximum} & 8 \ \mathbb{W} \\ \end{array}$



Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

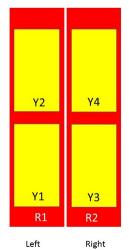
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 42.1 kg | 92.815 lb

Array Layout



A	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	R1	698-896	1-2	1	CPxxxxxxxxxxxxxxxxmm.1
	R2	698-896	3-4	2	CPxxxxxxxxxxxxxxxxmm.2
	Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxxmm.3
	Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxxxmm.4
	Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxxxxmm.5
	Y4	1695-2360	11-12	6	CPxxxxxxxxxxxxxxmm.6

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 1,800 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	16	16.9	17	17.7	18.1	18.4
Beamwidth, Horizontal, degrees	76	72	63	56	58	57
Beamwidth, Vertical, degrees	8.4	7.4	7.8	7.1	6.7	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	20	20	21	17
Front-to-Back Ratio at 180°, dB	30	29	35	37	35	35
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,	350	350	300	300	300	300
maximum, watts						

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	15.6	16.5	16.3	17.3	17.4	18
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.8	±0.5	±0.5	±0.5
Gain by Beam Tilt, average, dBi	2° 15.6 7° 15.7 12° 15.5	2° 16.6 7° 16.6 12° 16.1	2° 16.2 7° 16.4 12° 16.2	2° 17.1 7° 17.5 12° 17.3	2° 17.3 7° 17.7 12° 17.5	2° 17.7 7° 18.3 12° 17.9
Beamwidth, Horizontal Tolerance, degrees	±3.8	±4.3	±5.2	±4	±5	±2.8
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.6	±0.3	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	15	14	13	15	17	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	29	29	29	28
CPR at Boresight, dB	18	19	18	20	21	18
CPR at Sector, dB	8	6	7	7	7	8

Mechanical Specifications

Effective Projective Area (EPA), frontal $1 \text{ m}^2 \mid 10.764 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.35 \text{ m}^2 \mid 3.767 \text{ ft}^2$

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 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
 2875 mm | 113.189 in

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Weight, gross 55.3 kg | 121.915 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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